

University of Cardiff  
School of History, Archaeology and Religion



*Cooking, space and the formation of social  
identities in Neolithic Northern Greece:  
evidence of thermal structure assemblages  
from Avgi and Dispilio in Kastoria*

Evanthia Kalogiropoulou

Volume 2: Maps, Figures, Plans, Tables

Submitted for the Degree of Doctor of Philosophy

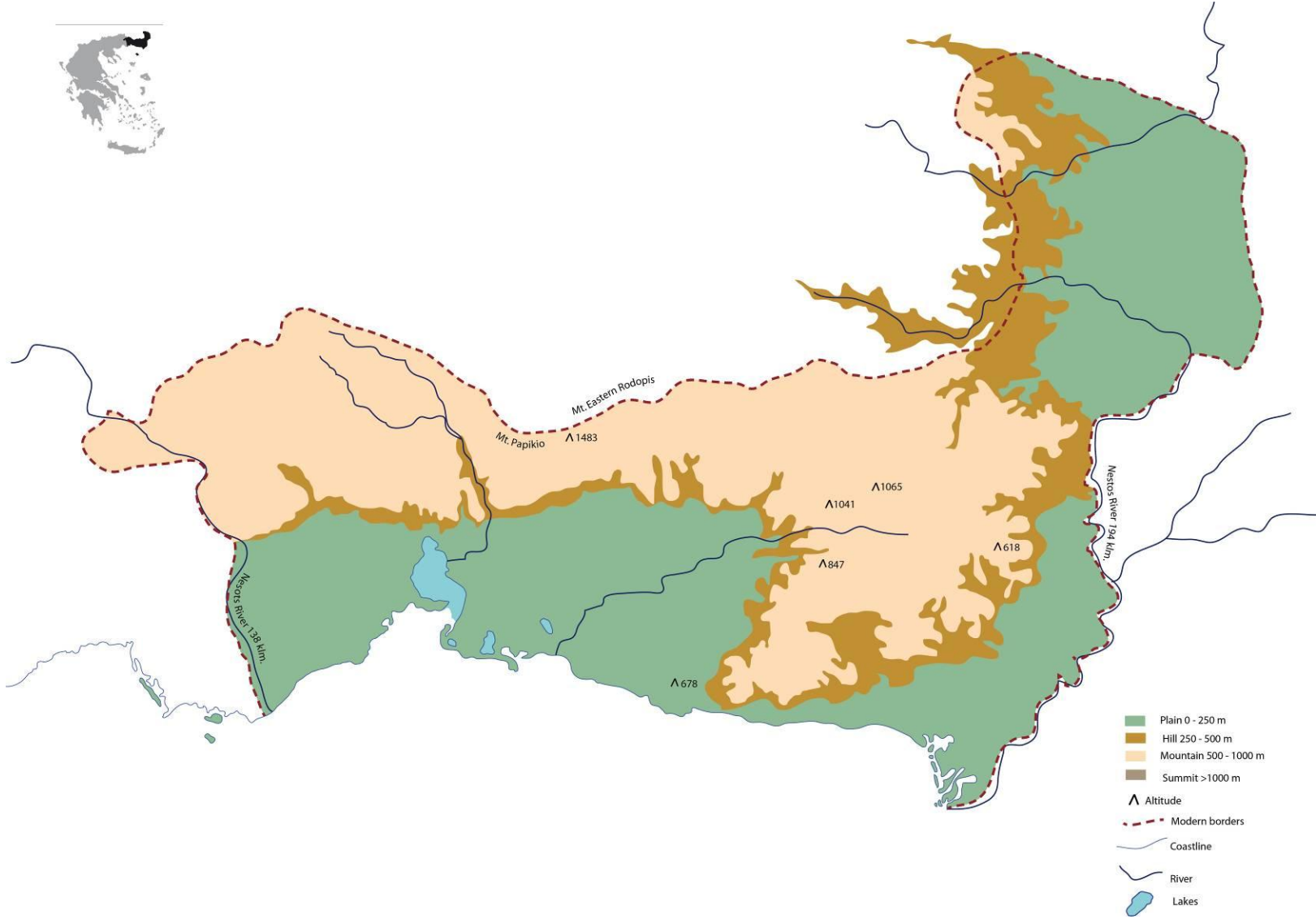
May 2013



Map 1. 1 Geographical map of Macedonia.



Map 1. 2 Geographical map of Western Thrace.

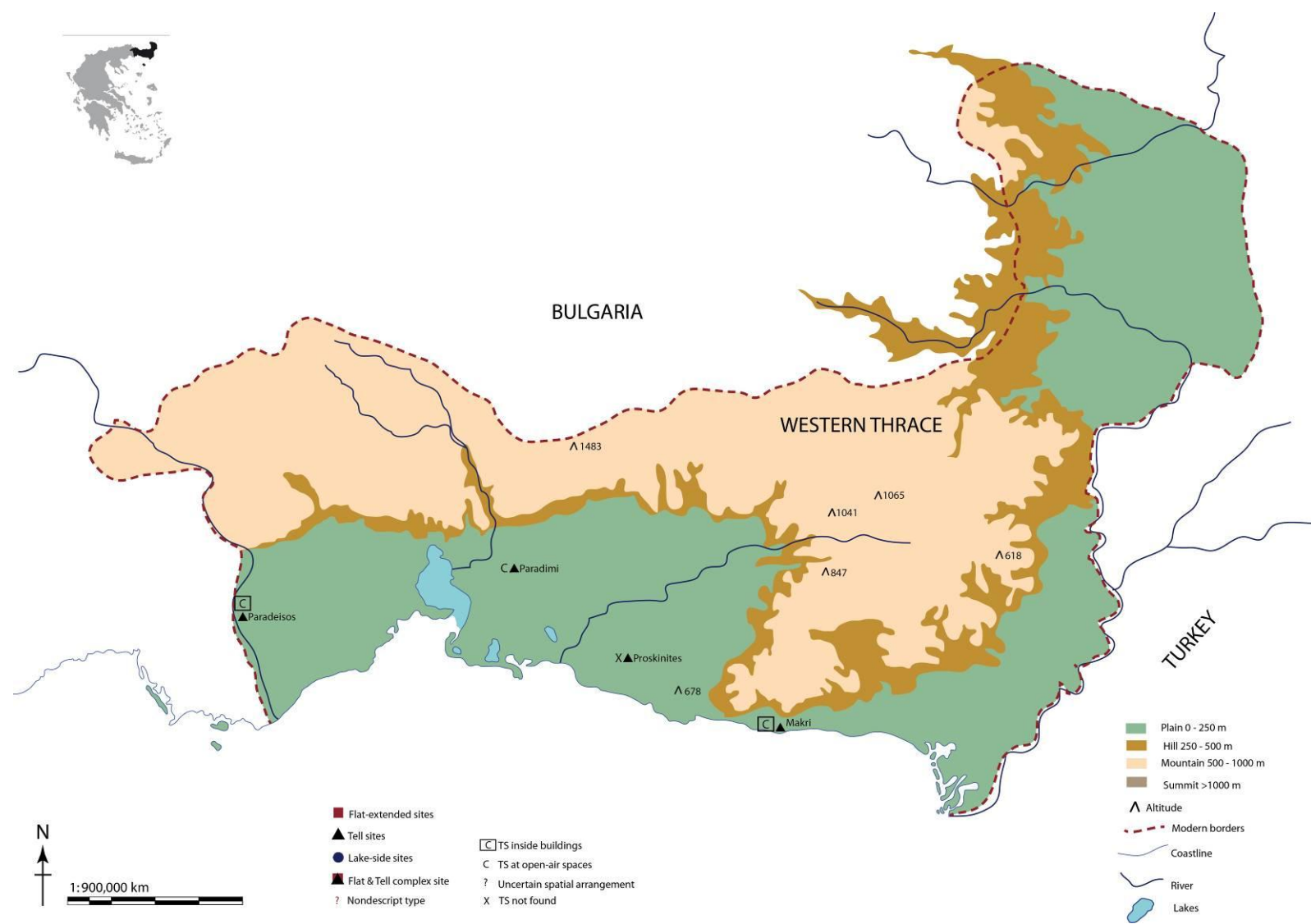




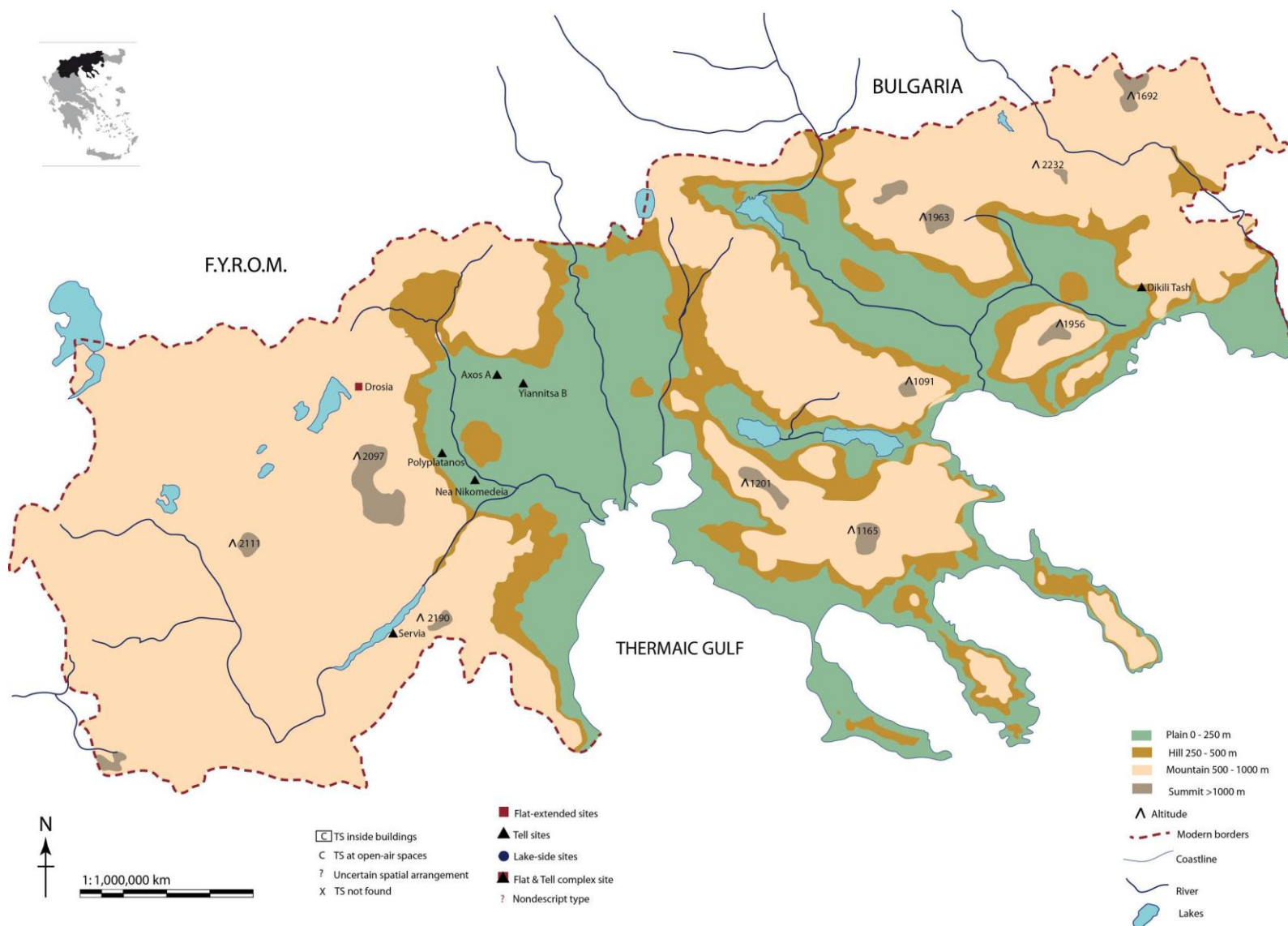
**Map 3. 1** Map of Neolithic sites from Macedonia Greece mentioned in the text (see also portfolio).



**Map 3. 2** Map of Neolithic sites from Western Thrace Greece mentioned in the text (see also portfolio).



**Map 7. 1** Macedonia in the EN period: geographical surroundings, settlement types and inter-site distribution of sites (see also portfolio).

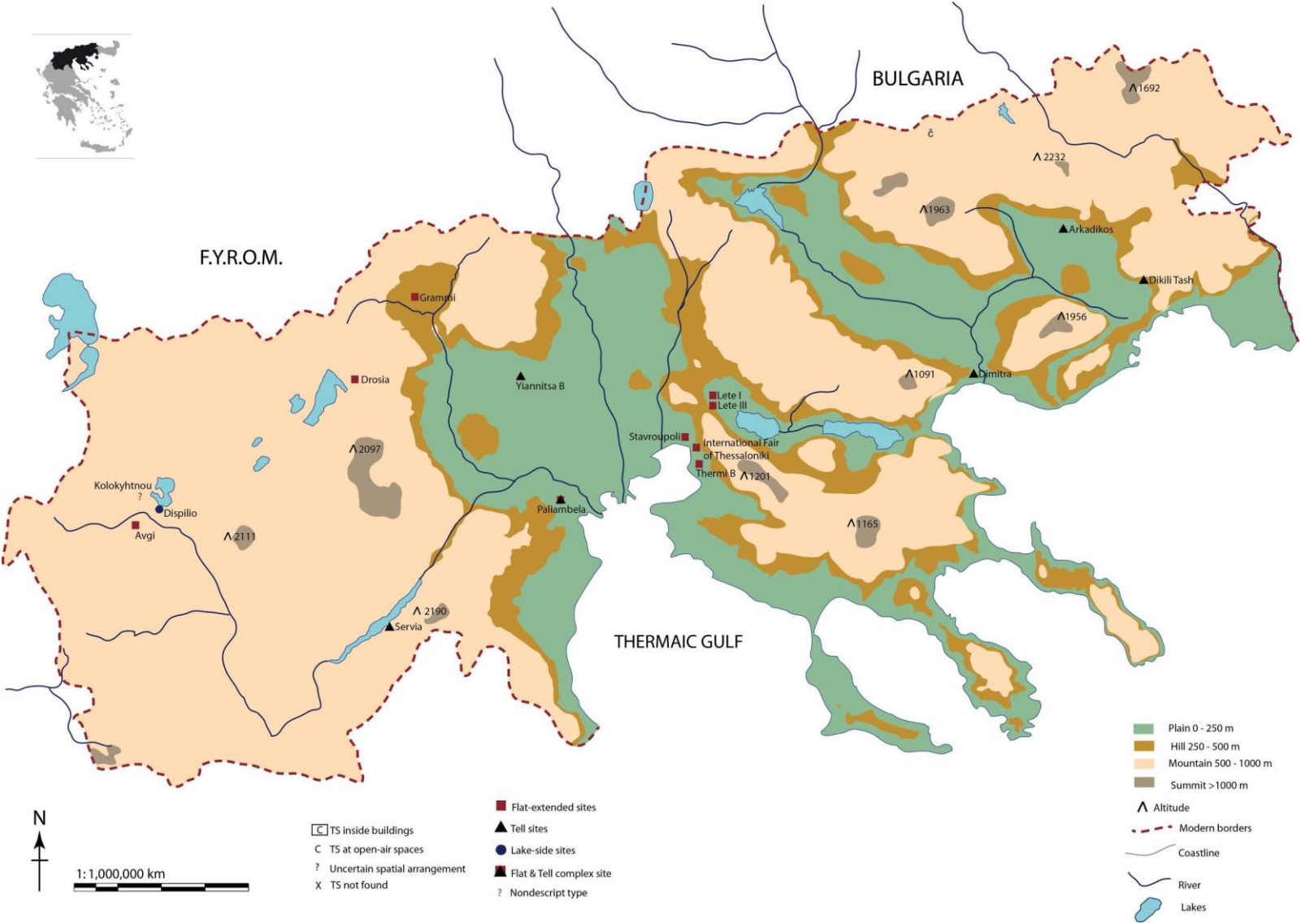


**Map 7. 2** Macedonia in the EN period: intra-site spatial distribution of kitchen spaces (see also portfolio).

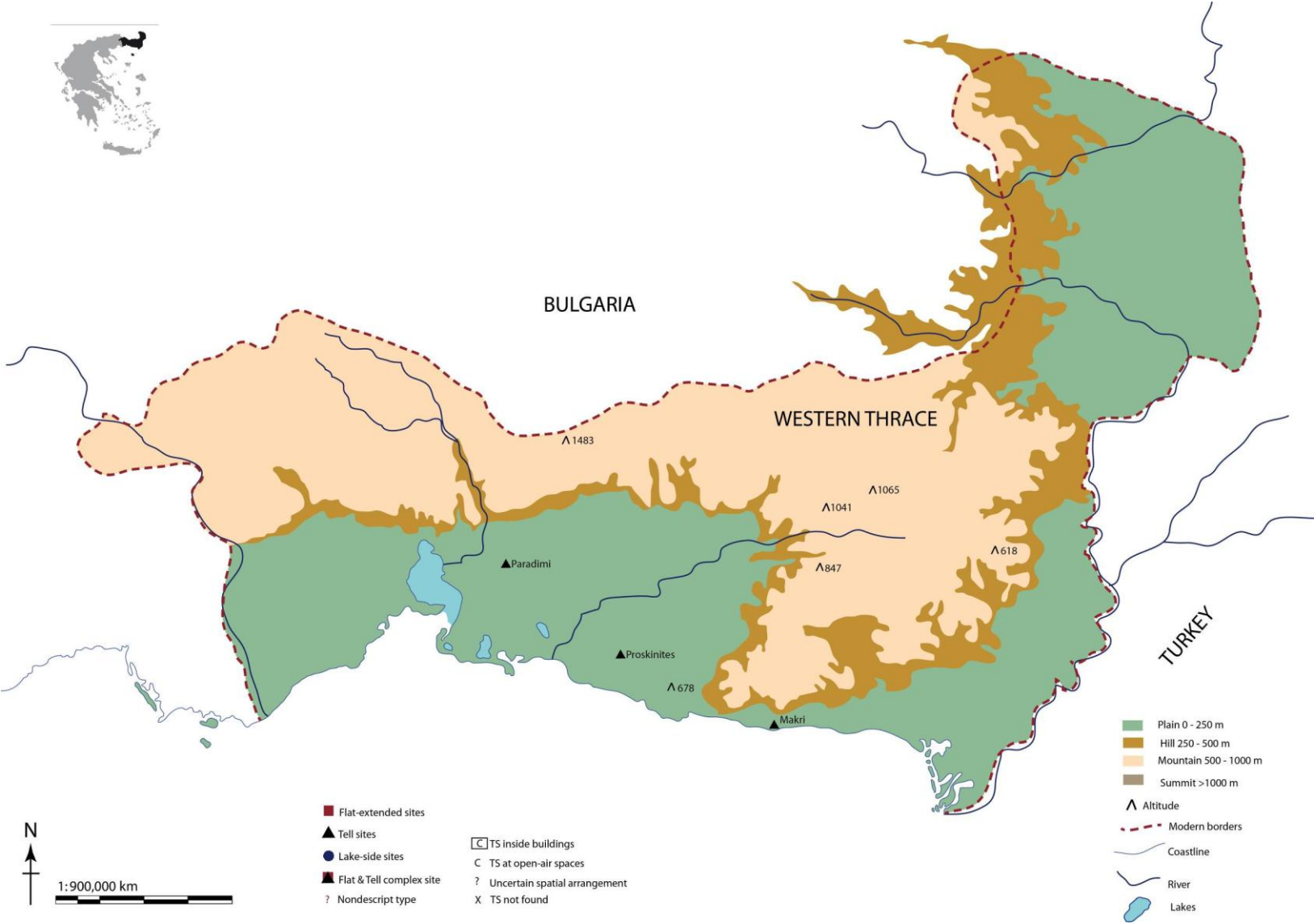




**Map 7. 3** Macedonia in the MN period: geographical surroundings, settlement types and inter-site distribution of sites (see also portfolio).



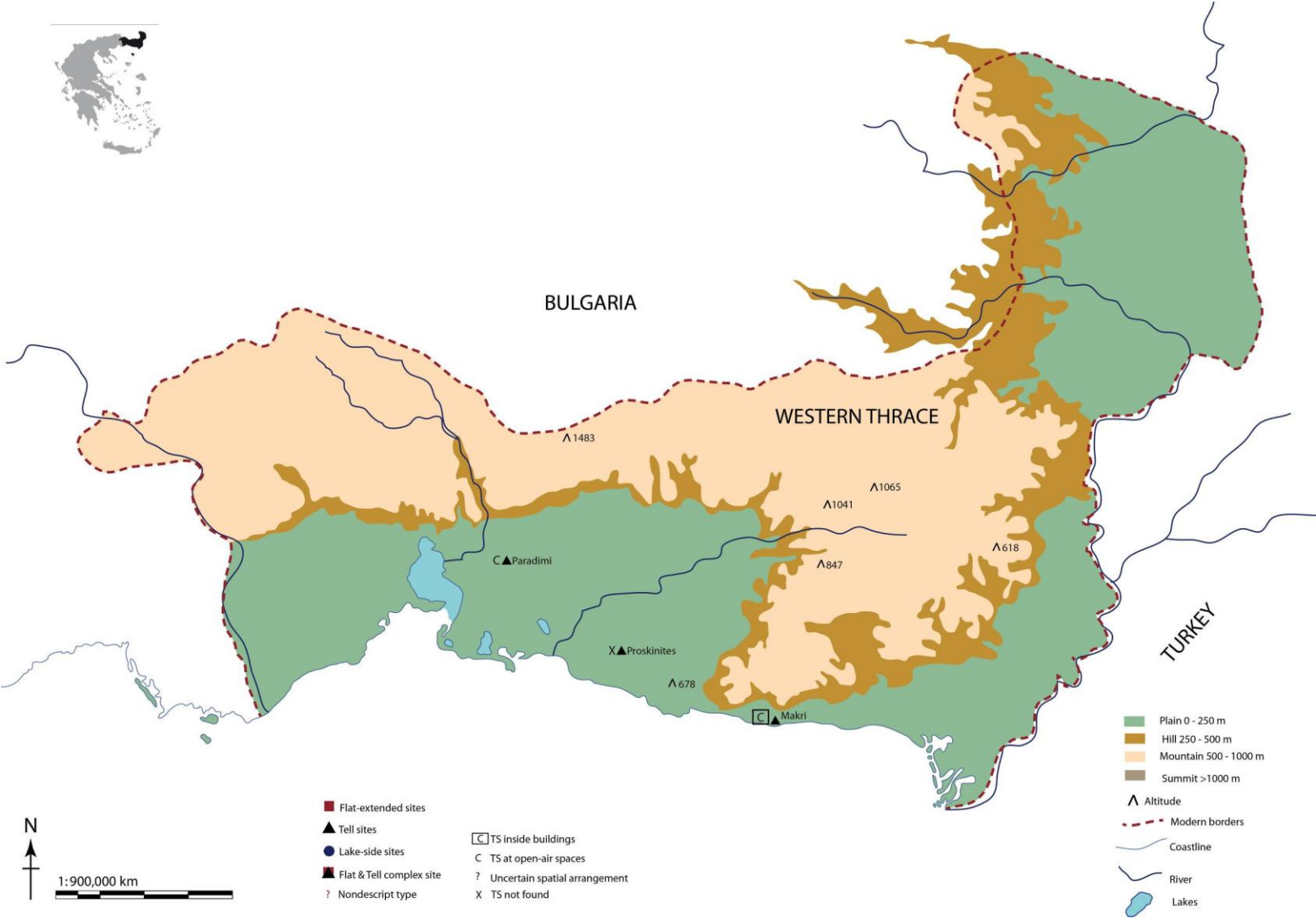
**Map 7. 4** Western Thrace in the MN period: geographical surroundings, settlement types and inter-site distribution of sites (see also portfolio).



**Map 7. 5** Macedonia in the MN period: intra-site spatial distribution of kitchen spaces (see also portfolio).



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**Map 7. 8** Western Thrace in the LN period: geographical surroundings, settlement types and inter-site distribution of sites (see also portfolio).



**Map 7. 9** Macedonia in the LN period: intra-site spatial distribution of kitchen spaces (see also portfolio).

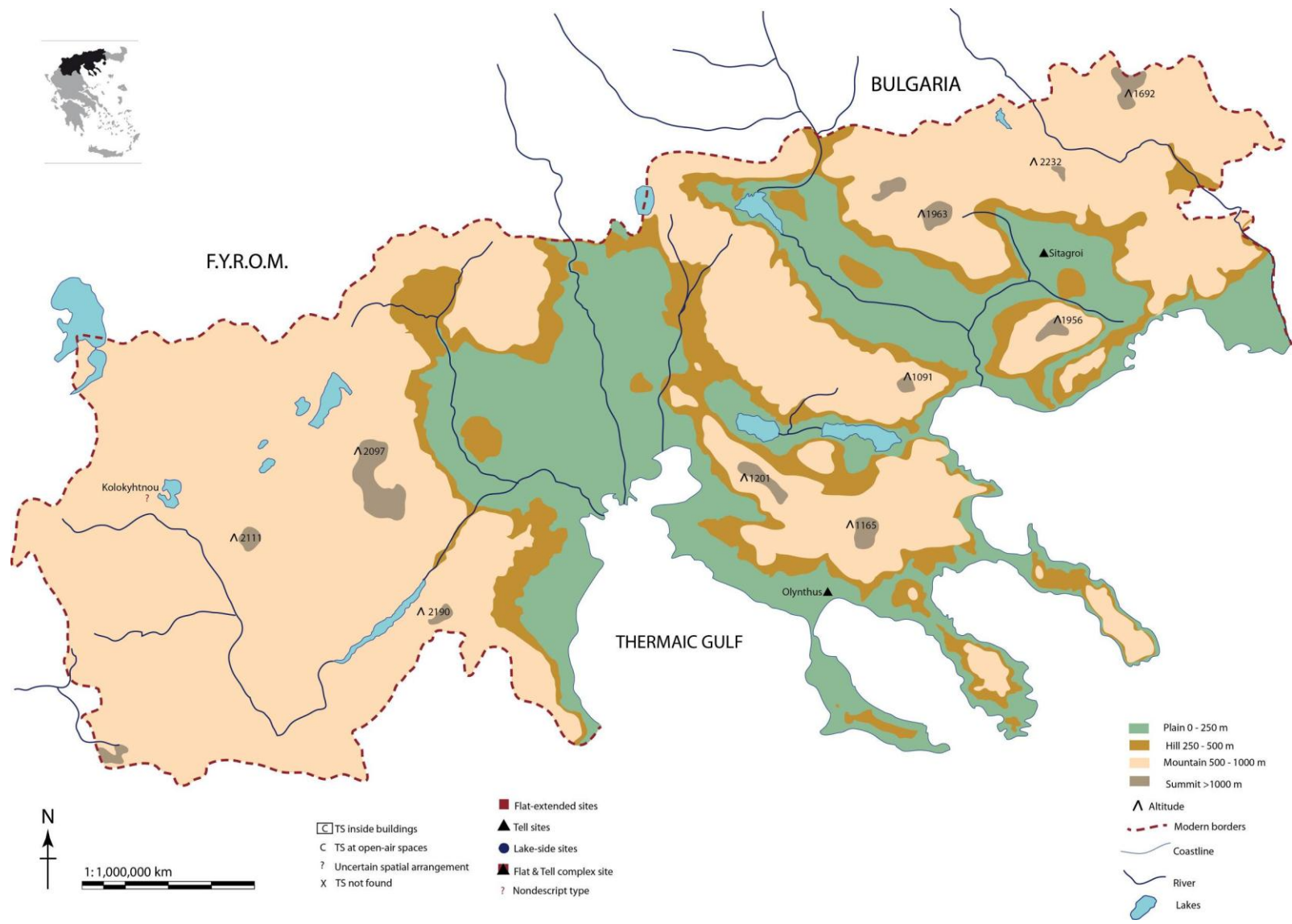


**Map 7. 10** Western Thrace in the LN period: intra-site spatial distribution of kitchen spaces (see also portfolio).





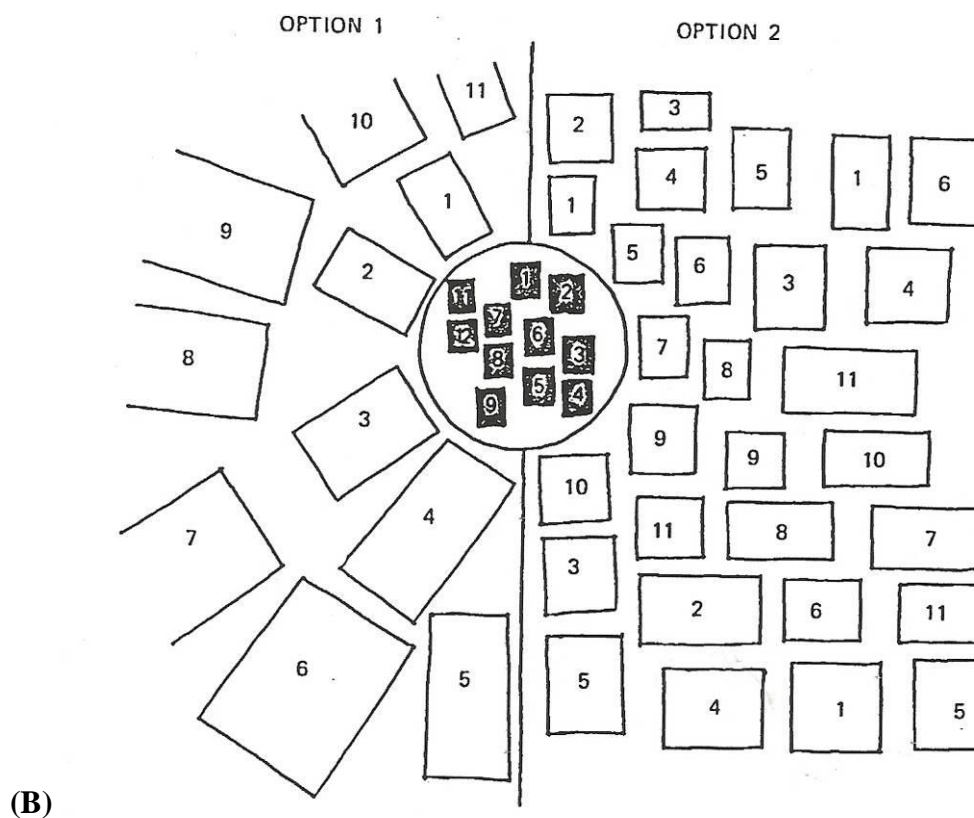
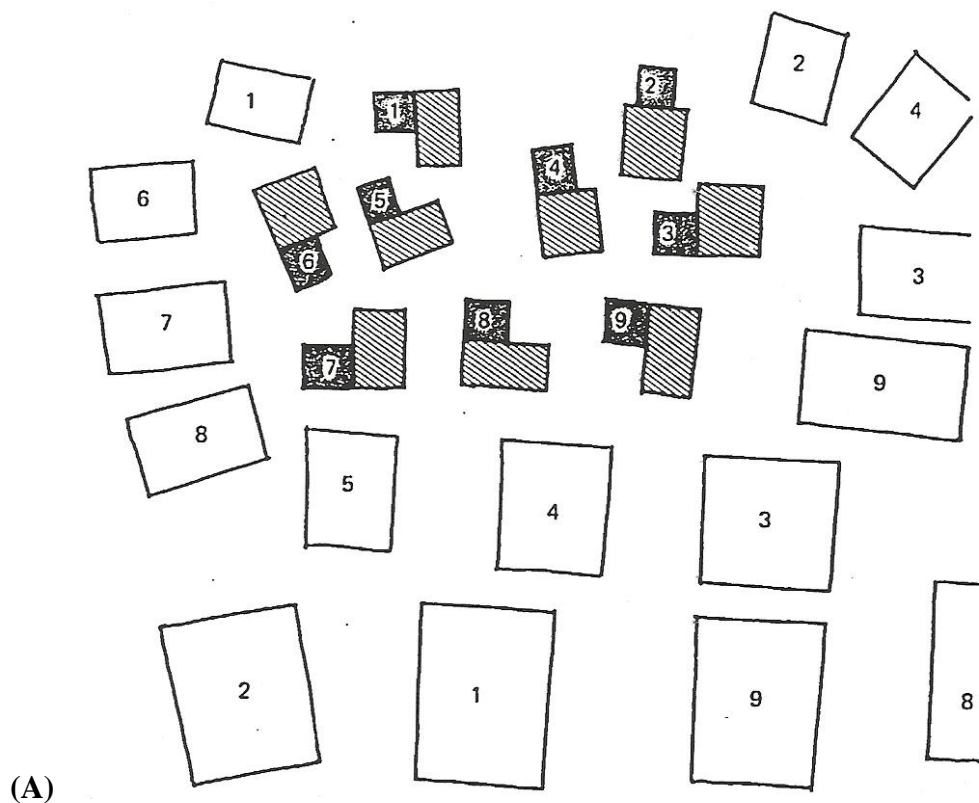
**Map 7. 11** Macedonia in the FN period: geographical surroundings, settlement types and inter-site distribution of sites.



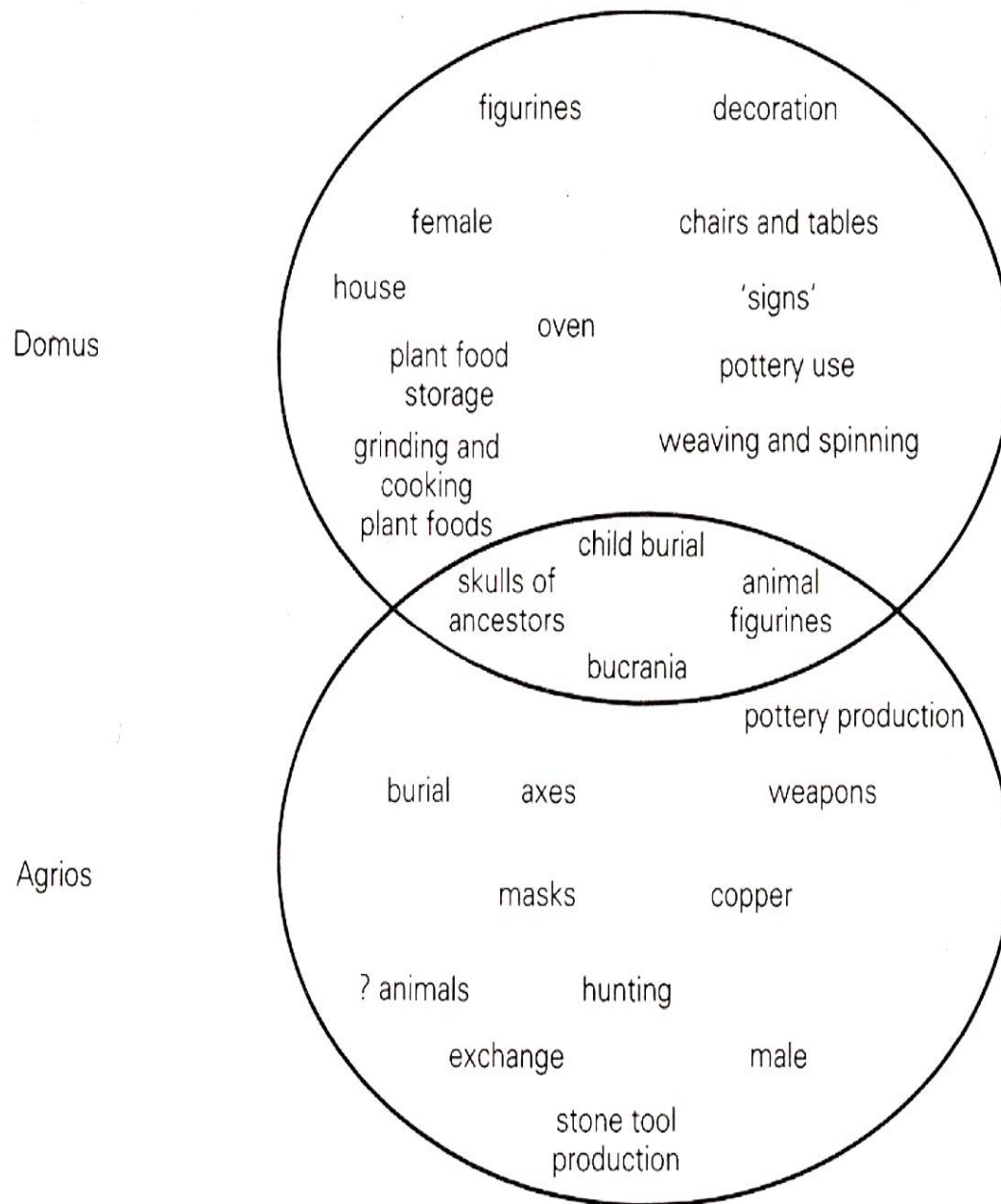
**Map 7. 12** Western Thrace in the FN period: intra-site spatial distribution of kitchen spaces.



**Figure 2. 1** (A) Two models of land use on flat-extended settlements. (B) Two models of land use around tell settlements (Chapman 1989, 53).

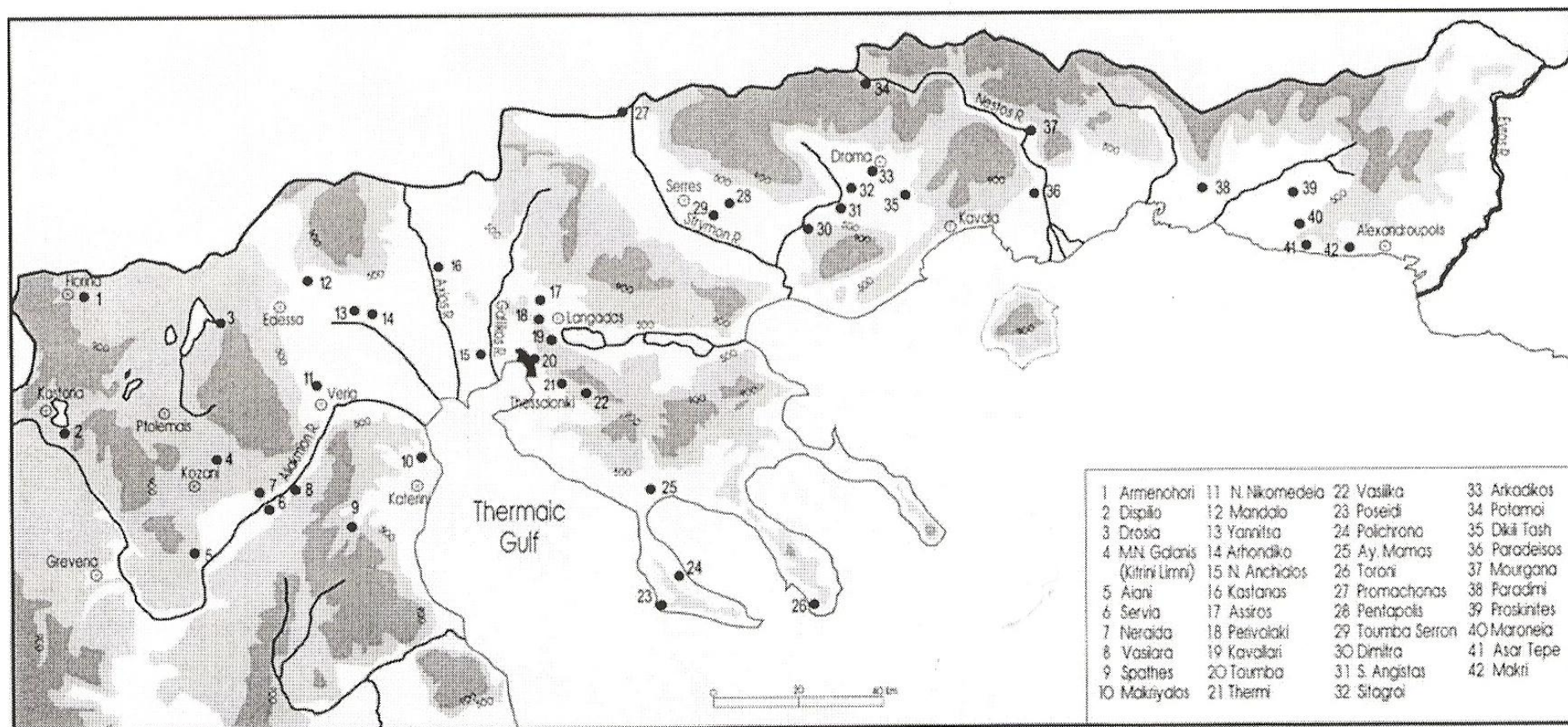


**Figure 2. 2** Hodder's model for the associations of the *domus* and *agrios* in South-east Europe (Hodder 1990, 69).





**Figure 3. 1** Macedonia and Western Thrace: principal sites found from excavation and survey projects in the region by 1996 (Andreou *et al.* 1996, 563).

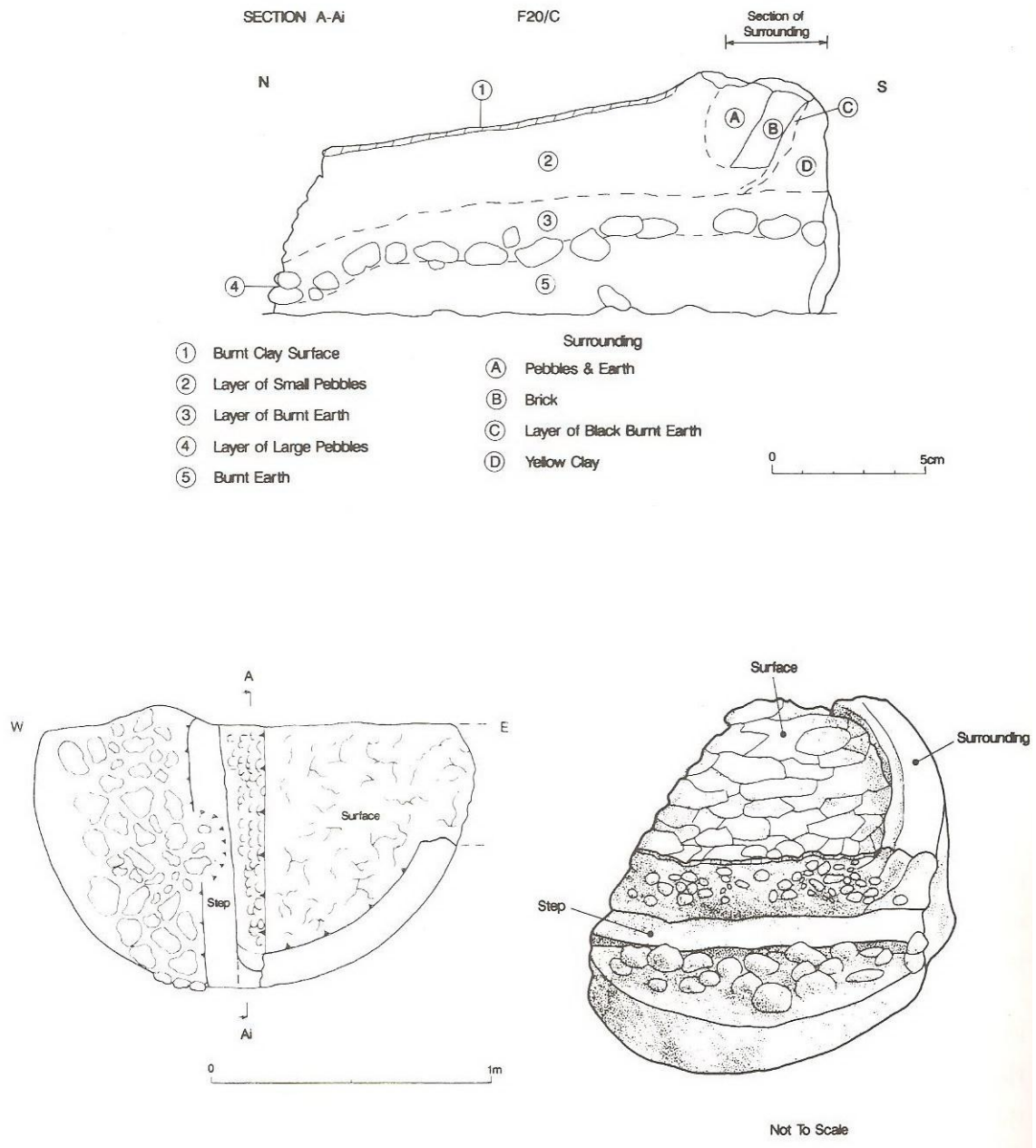


**Figure 4. 1** Dispilio, East Sector, Trench 8α: bottom side of the upper floor surface of a type 1a oven. The picture show fragments of past floor surface embedded as floor setting (photo by Evanthia Kalogiropoulou).

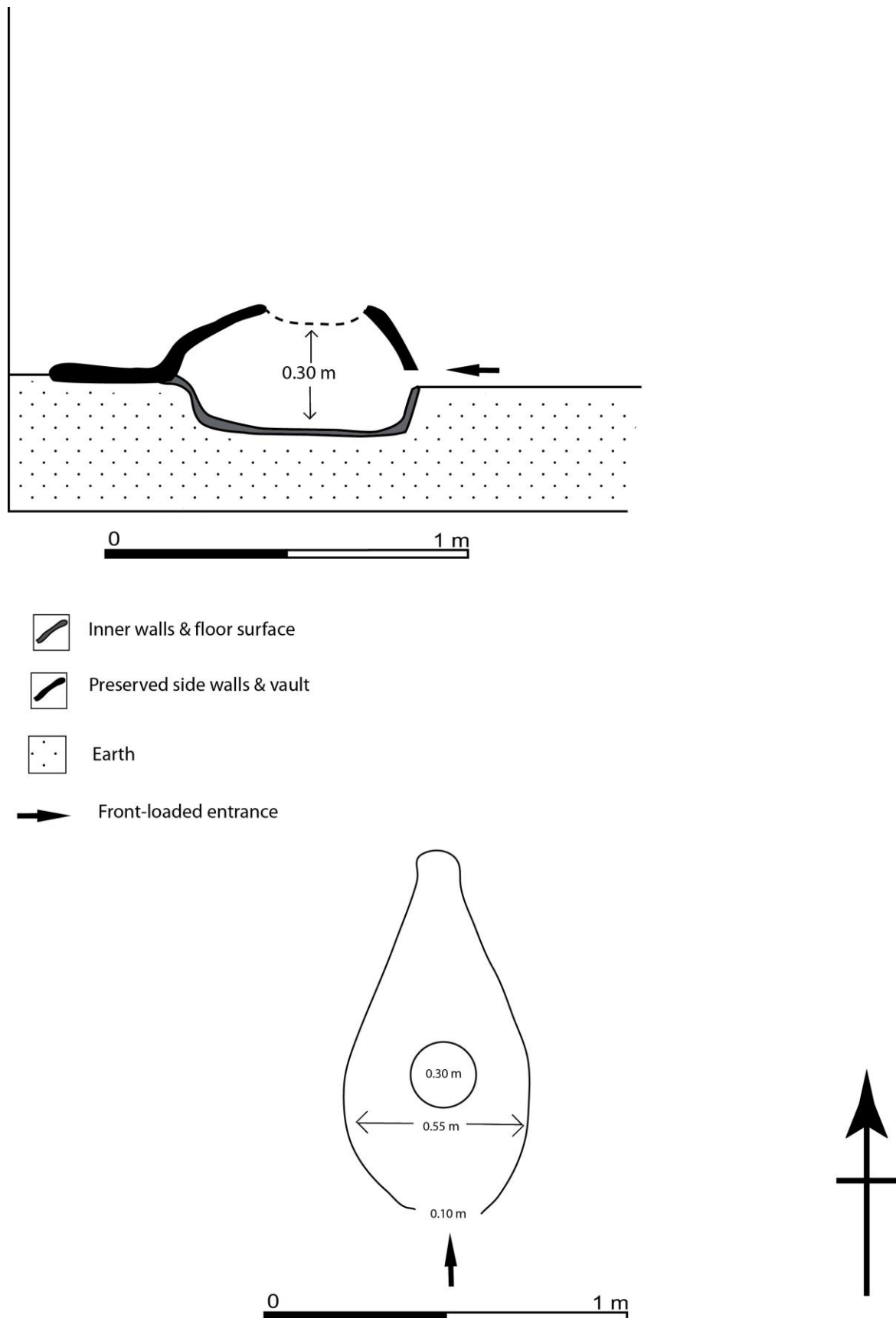




**Figure 4. 2** Servia, Phase Four oven (?): cross section (top); plan after partial section (bottom). Pebbles were used as a floor setting (Ridley *et al.* 2000, 94).



**Figure 4. 3** Avgi I, TS 2, type 1a oven: cross-section (top), plan (bottom).



**Figure 4. 4** Avgi I, TS 7, type 1b oven: cross-section (top), plan (bottom).

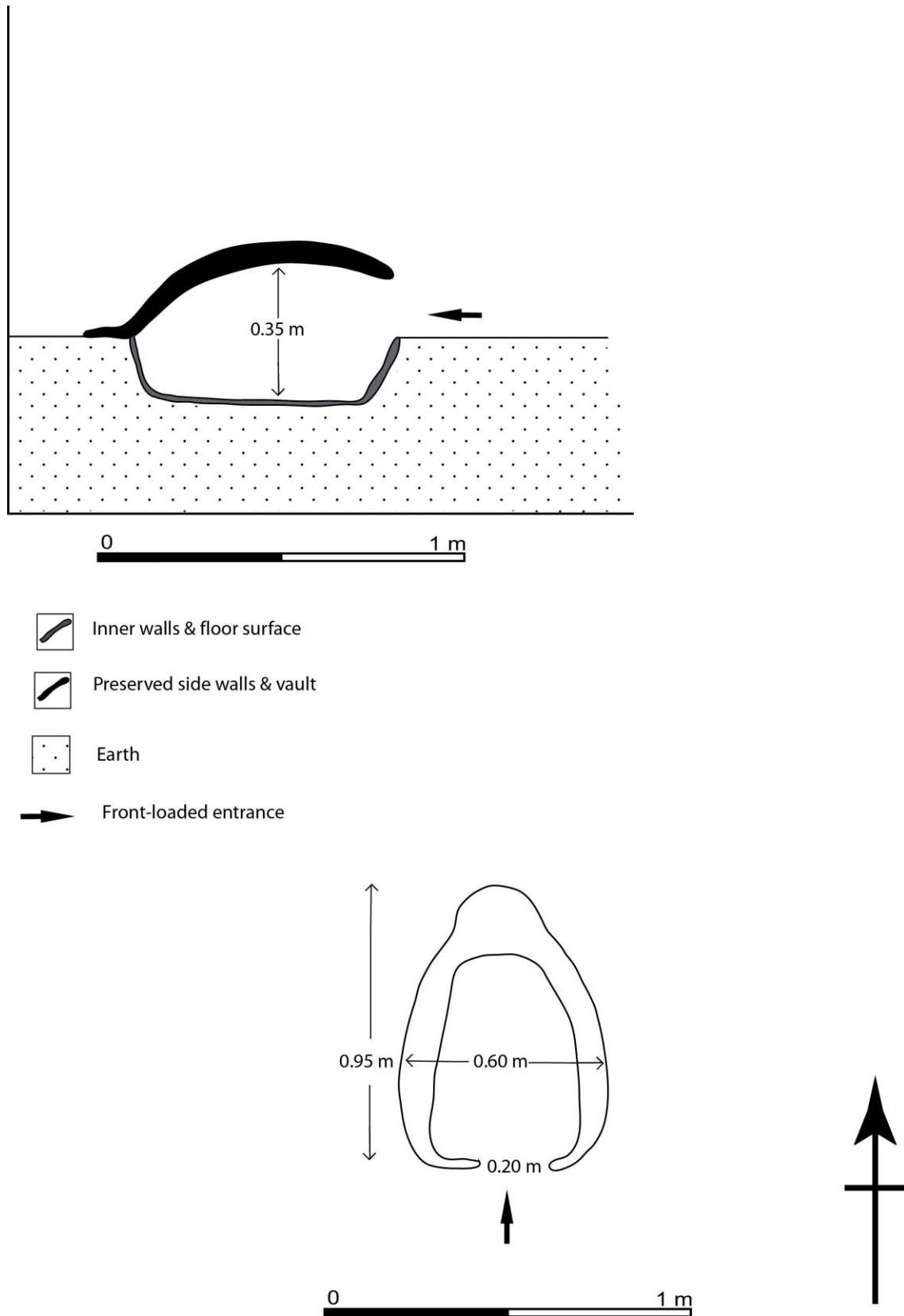
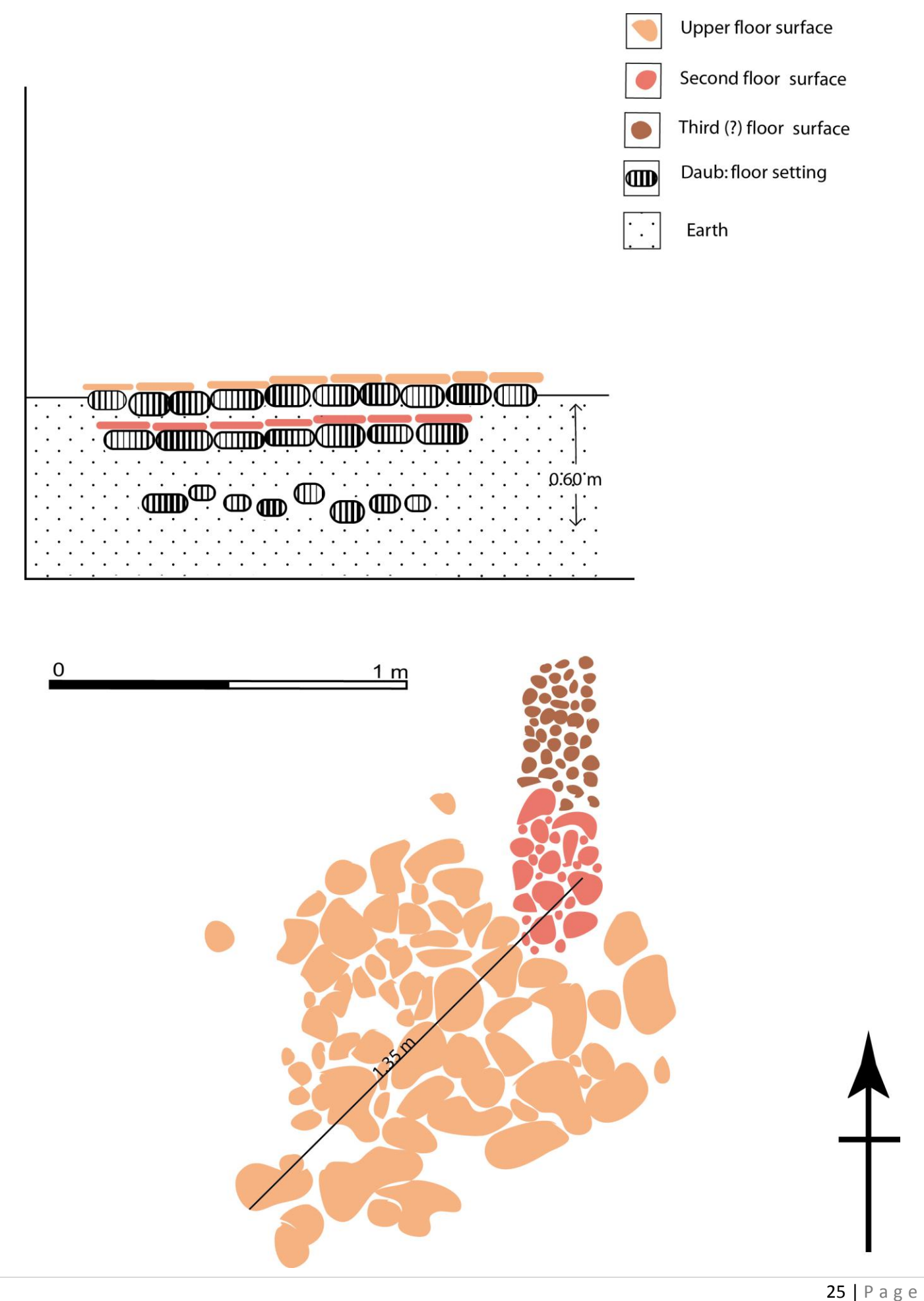
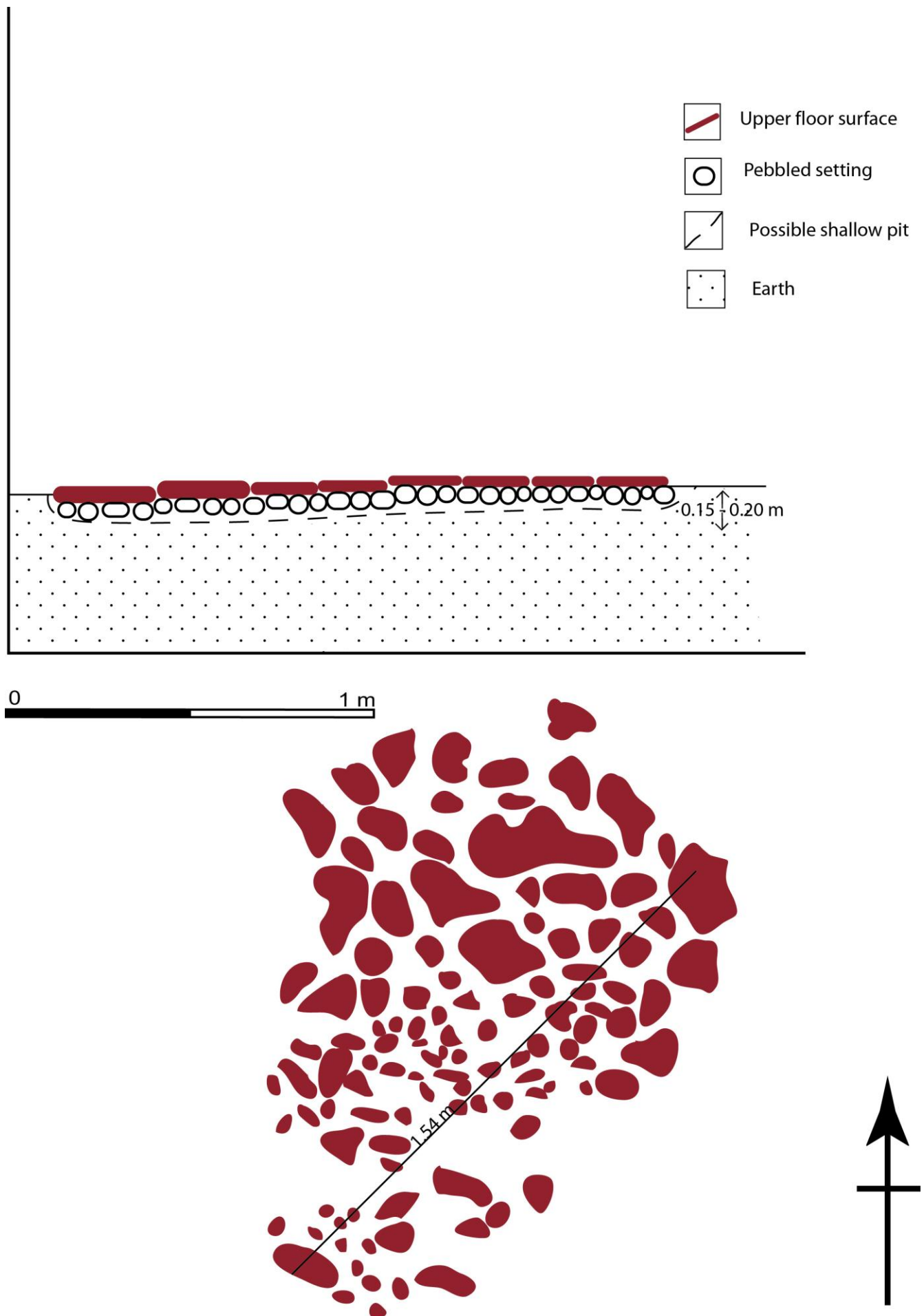


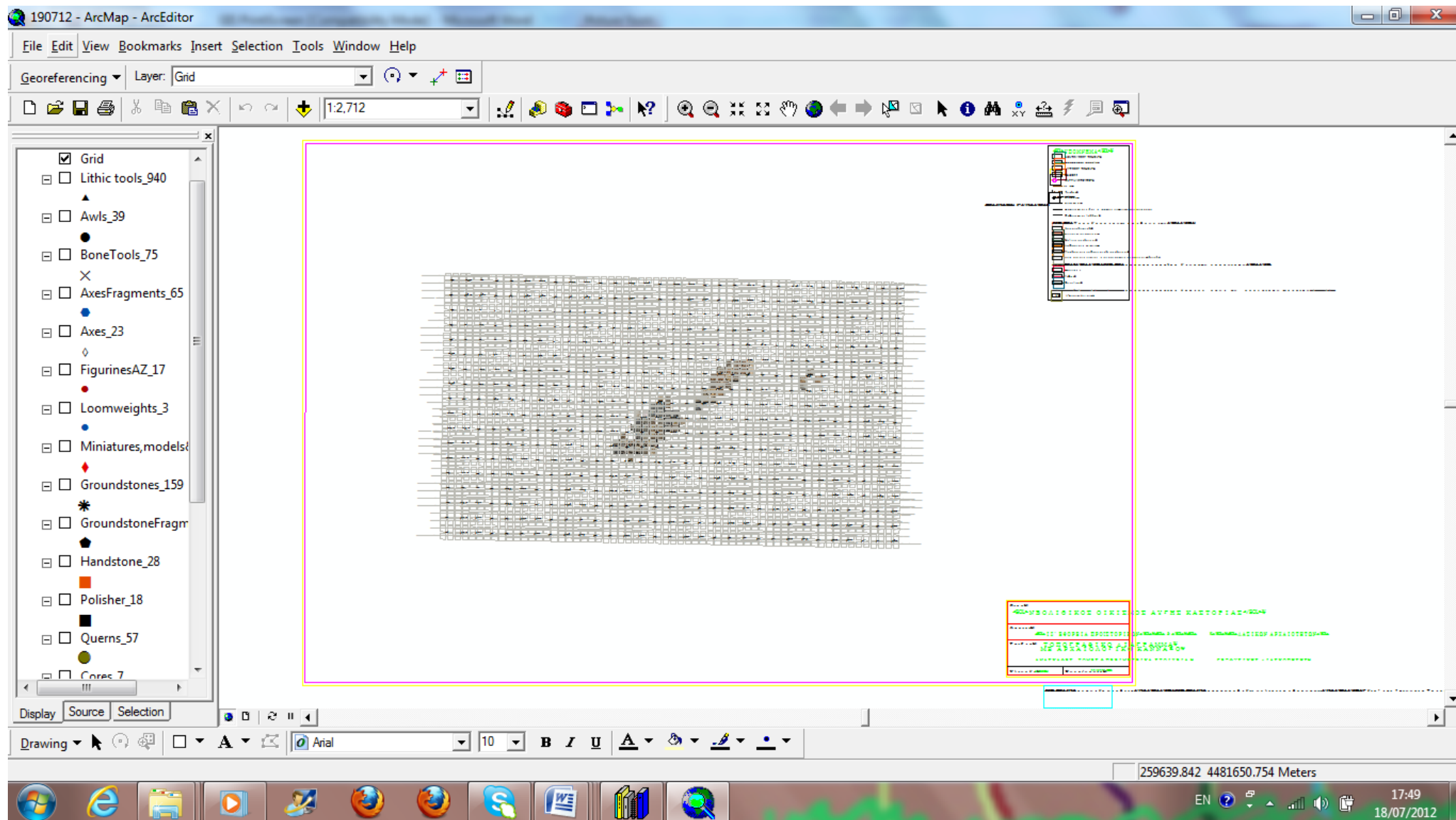
Figure 4. 5 Avgi I, TS 17, type 2b hearth: cross-section (top), plan (bottom).



**Figure 4. 6** Avgi II, TS 5, type 2a hearth: cross-section (top), plan (bottom).

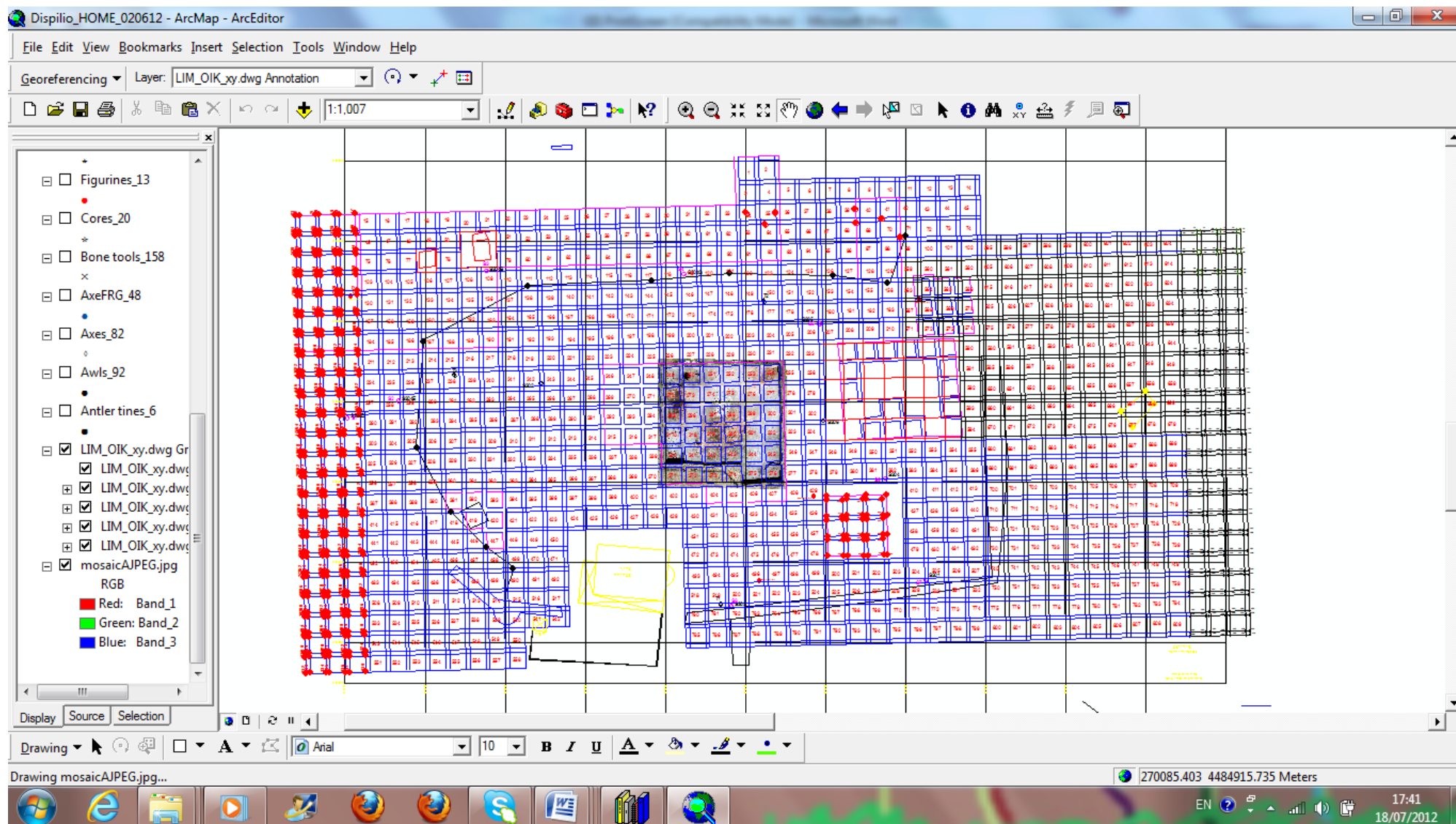


**Figure 4. 7** Avgi Neolithic settlement, GIS project: topographic grid and georeferenced photogrammetries.

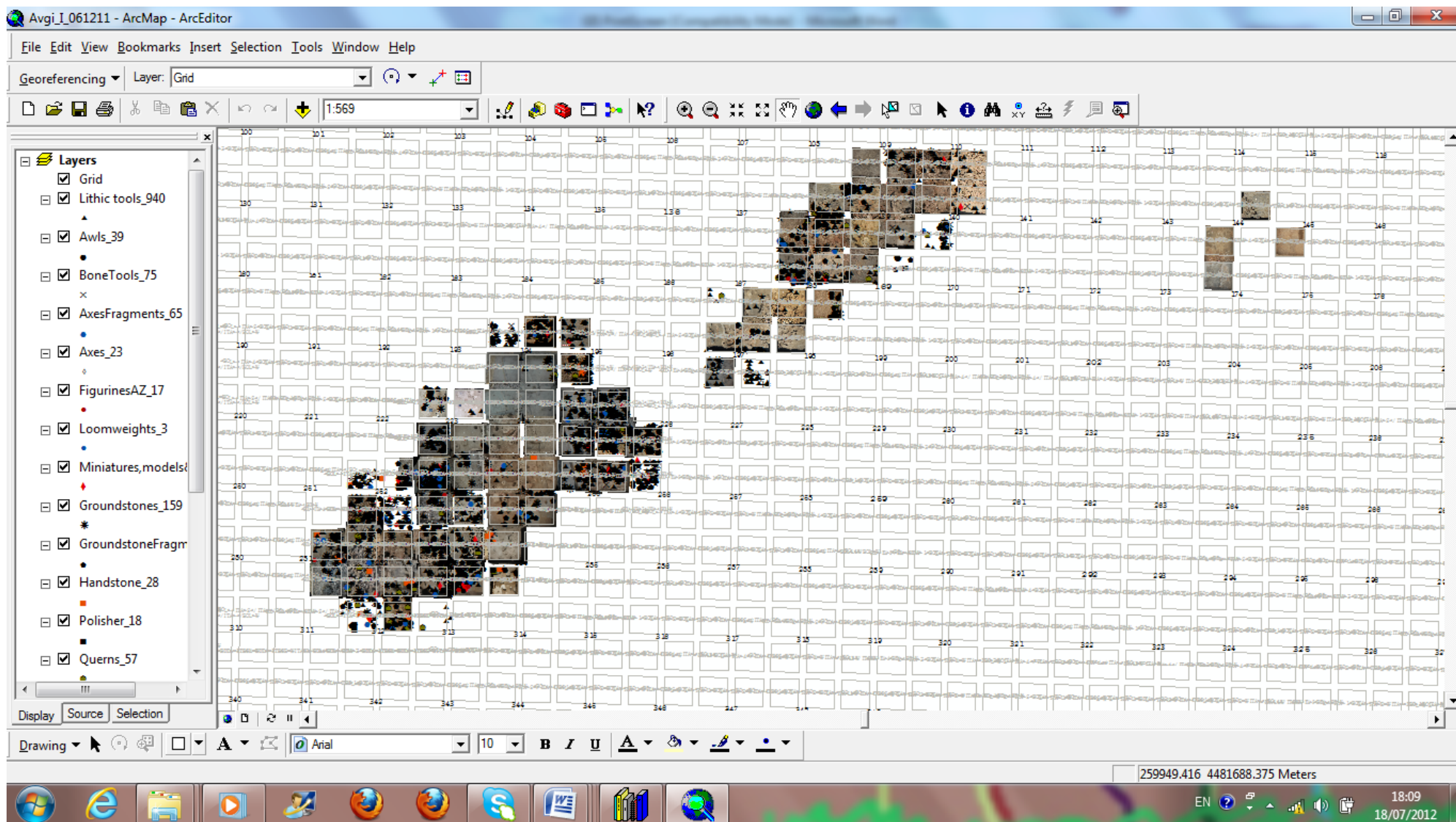




**Figure 4. 8** Dispilio Neolithic settlement, GIS project: topographic grid and georeferenced photogrammetries.

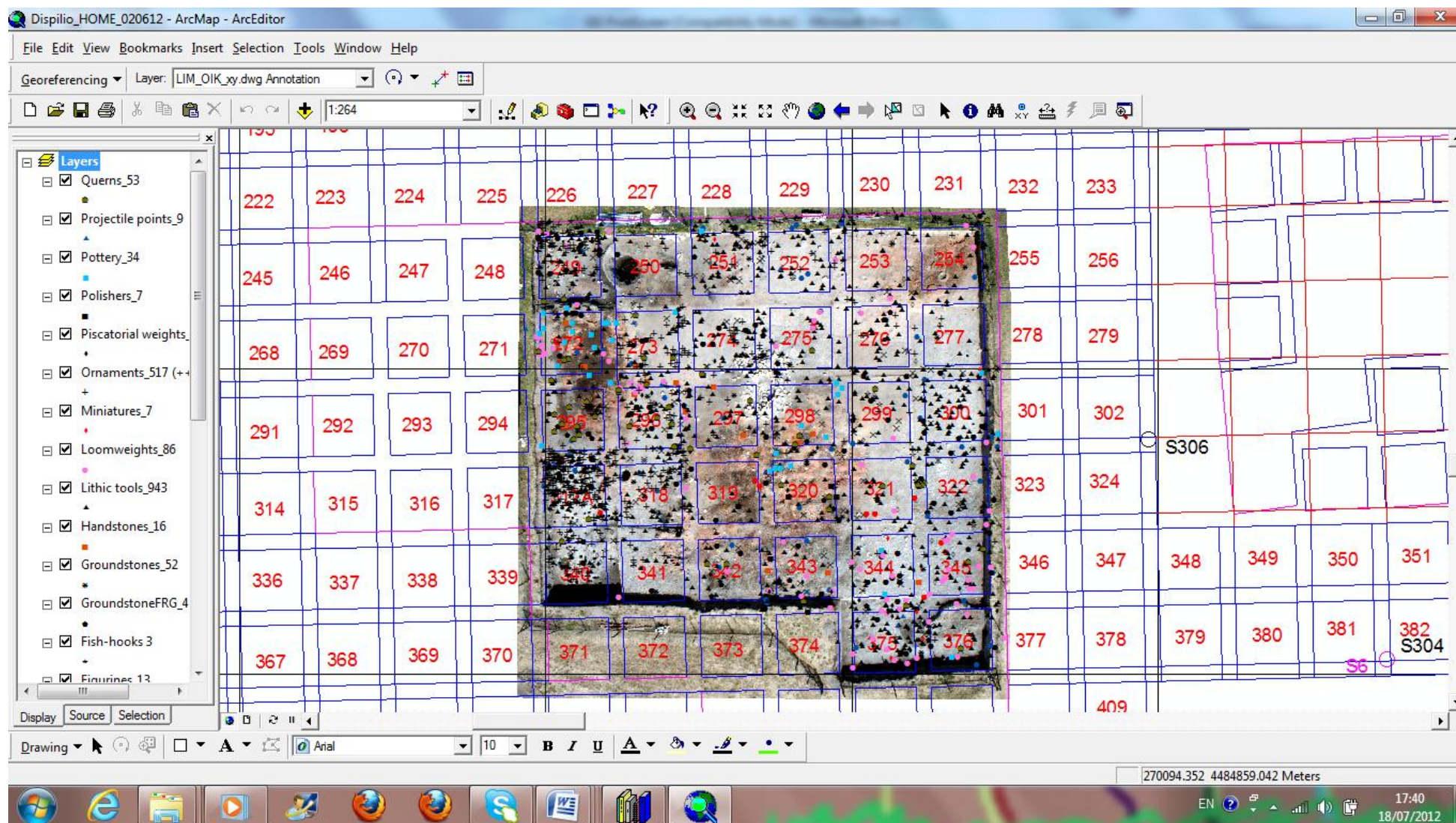


**Figure 4. 9** Avgi I, GIS project: distribution of portable finds in classification layers with GIS toolkit.





**Figure 4. 10** Dispilio, Phase A, GIS project: distribution of portable finds in classification layers with GIS toolkit.

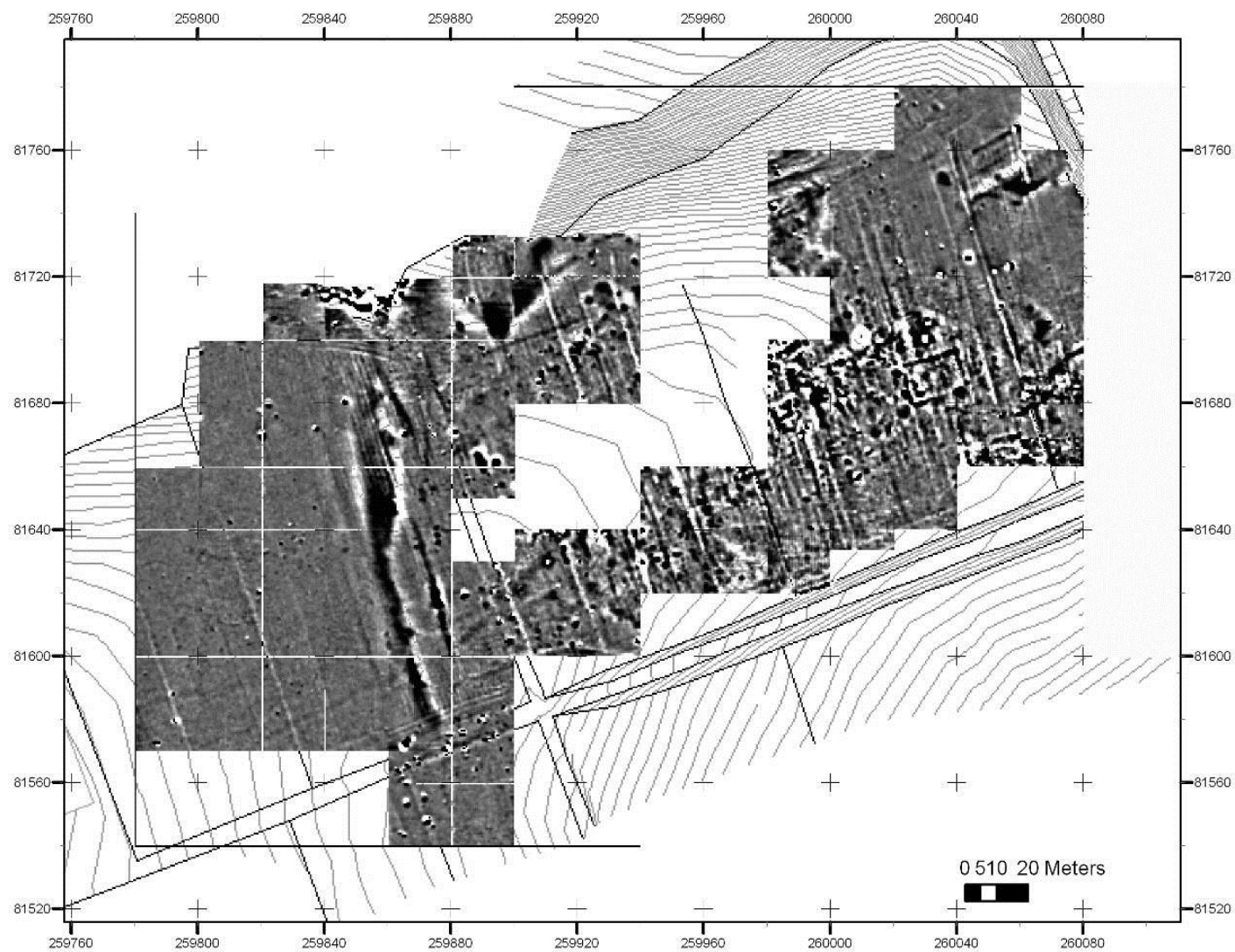




**Figure 5. 1** Thermal Structures from Avgi: (A) TS 8, oven type 1b, the remains of the dome structure collapsed and fell on the oven's floor; (B) TS 3, oven type 1a, the dome is not preserved; (C) TS 2, oven type 1b, the dome structure is intact; (D) TS 17, hearth type 2b.

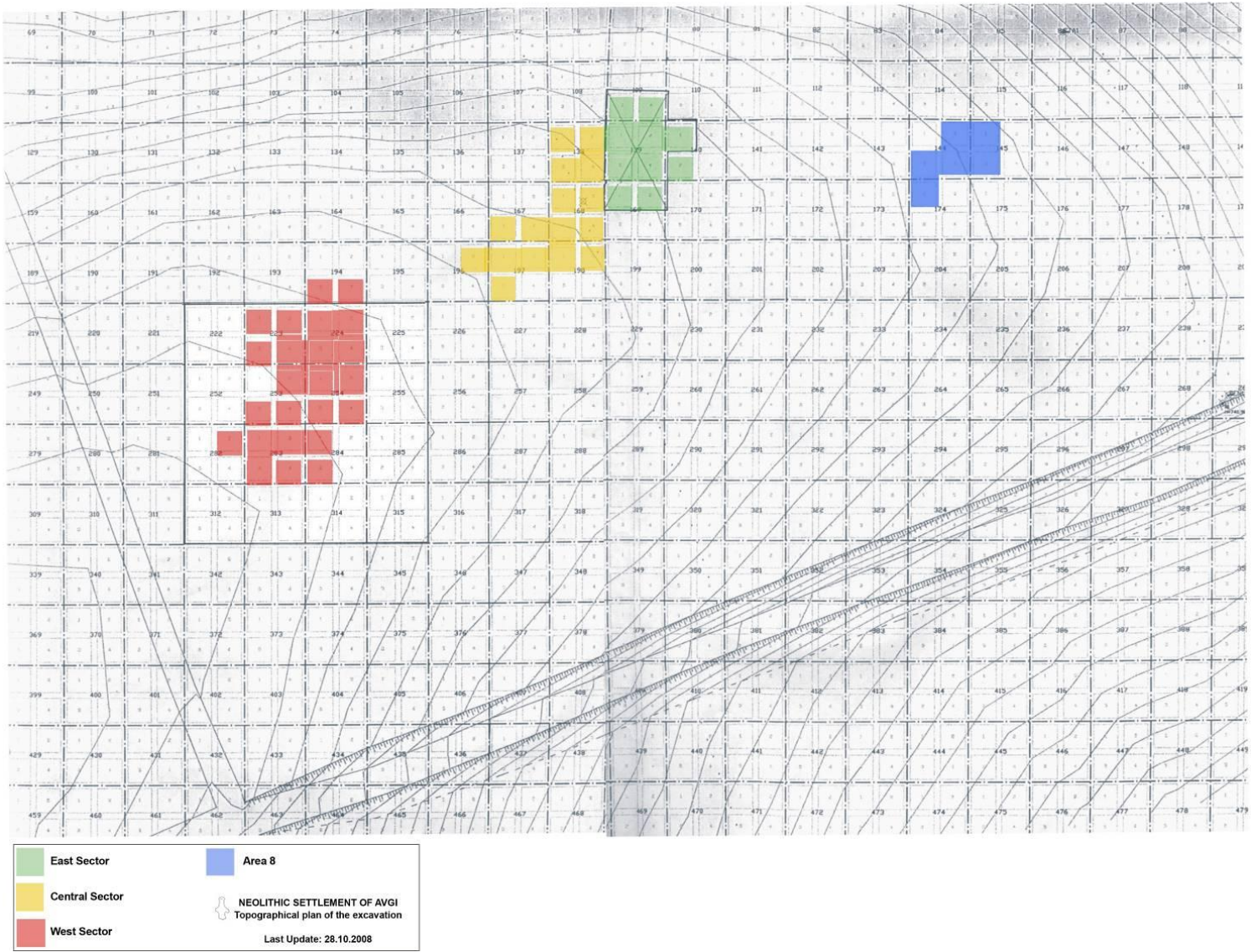


**Figure 5. 2** Map of the geophysical investigation at Avgi Neolithic site in year 2004 (Tsokas *et al.* 2005, 330).





**Figure 5. 3** Neolithic settlement of Avgi: topographic plan of the excavation (from Avgi excavations archive).

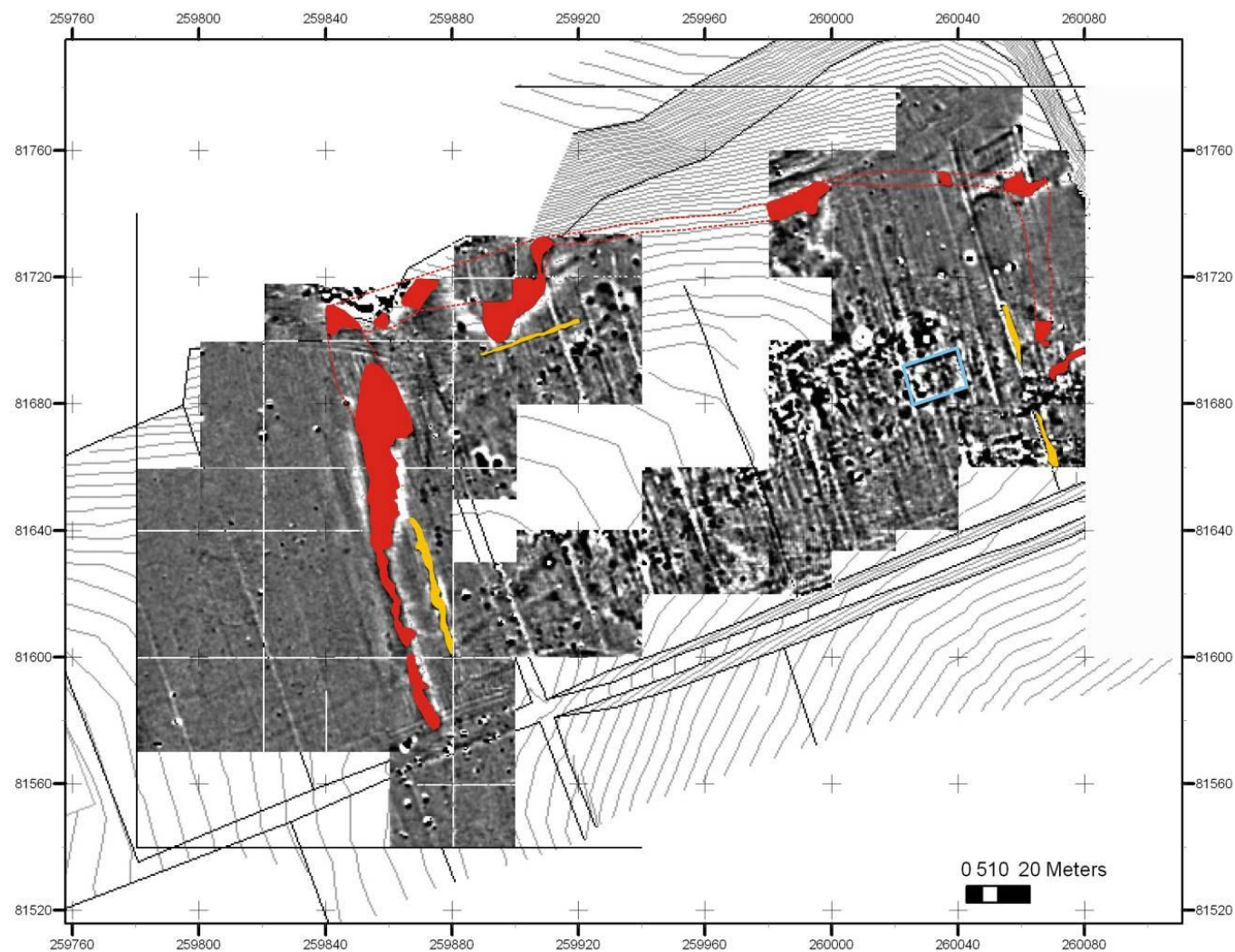




**Figure 5. 4** Avgi in its setting: the Neolithic site is marked by a dotted white line (from Avgi excavations archive).

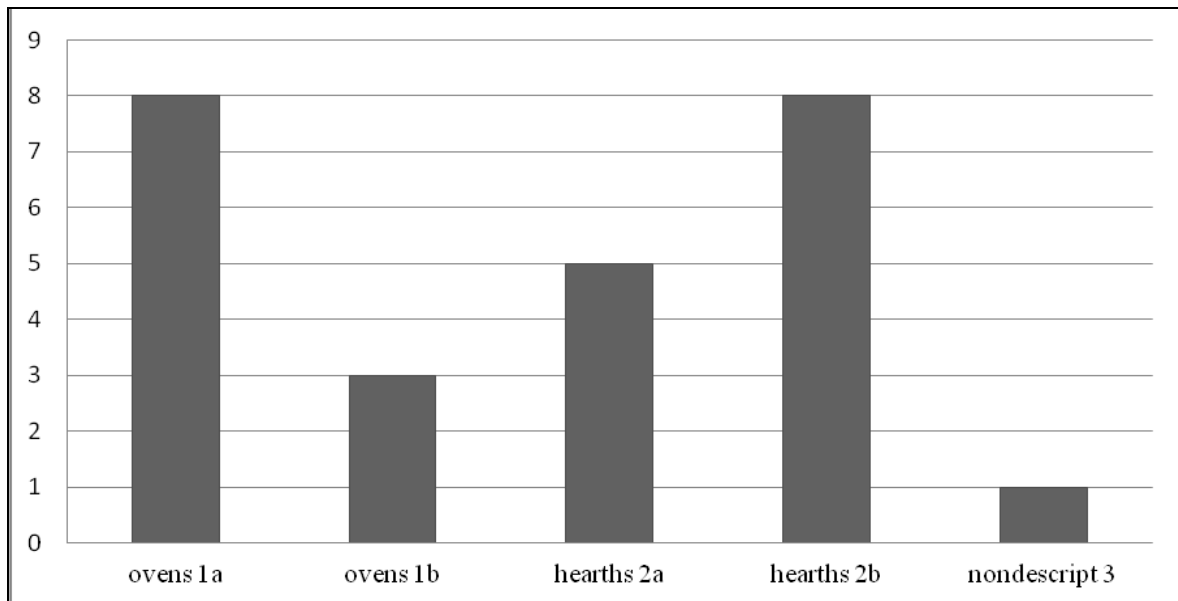


**Figure 5. 5** Geophysics plan. The external broad perimeter ditch is marked in red and the internal narrow ditch is marked in yellow (from Avgi excavations archive).

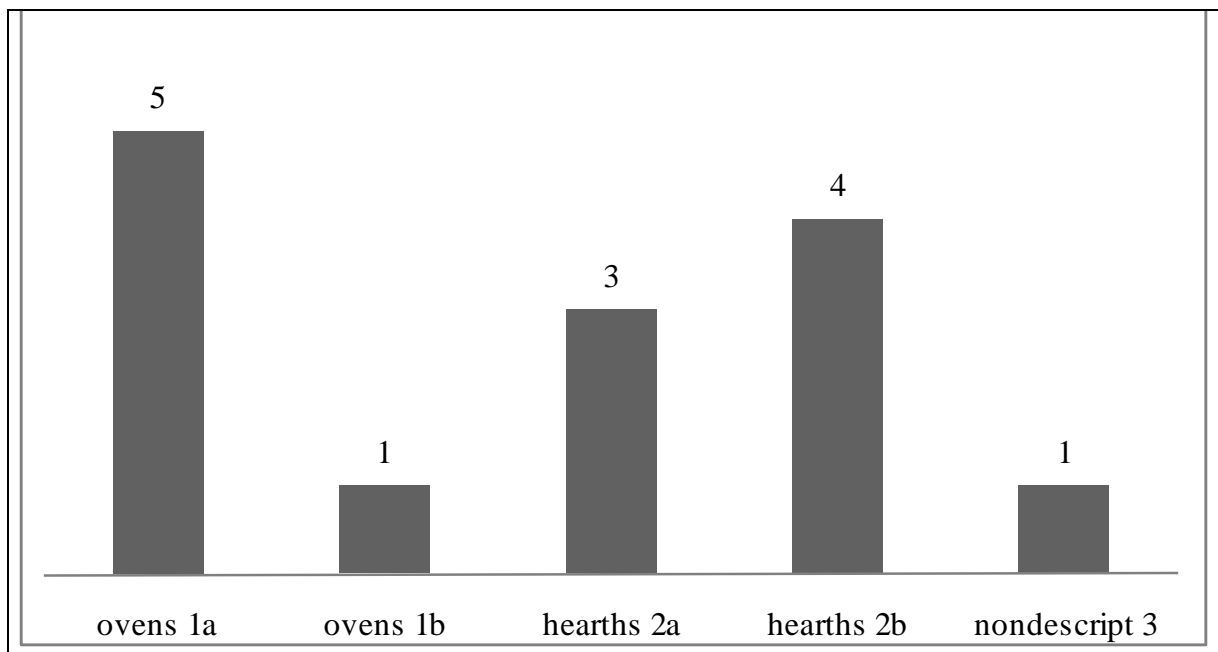




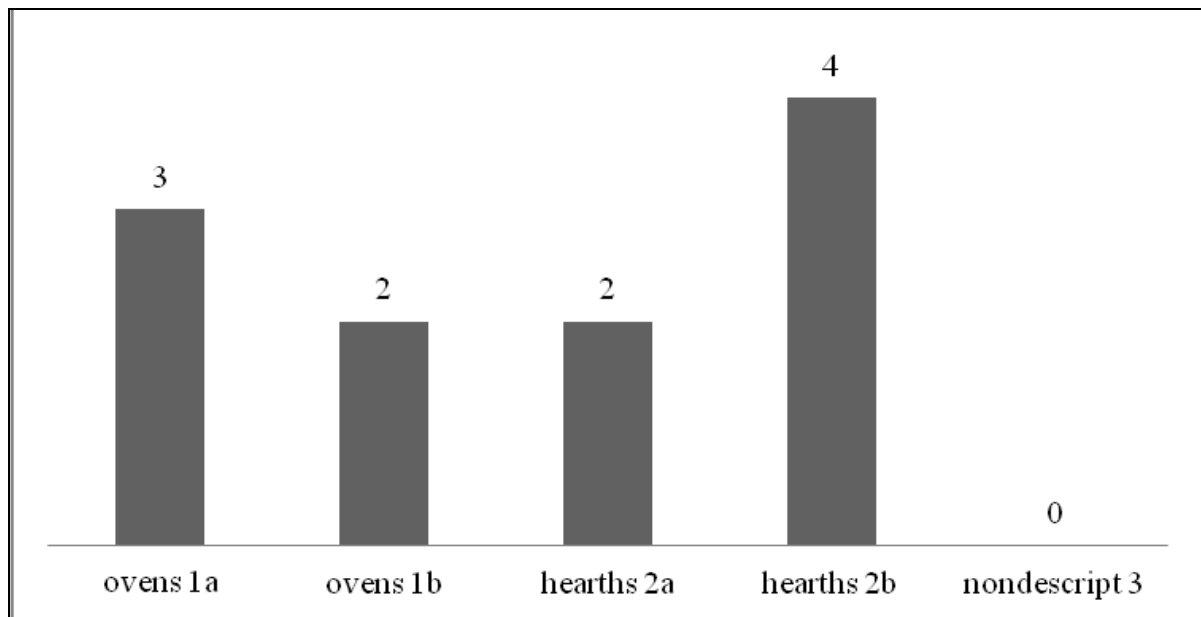
**Figure 5. 6** Classification of thermal structure types at Avgi Neolithic site, Northern Greece.



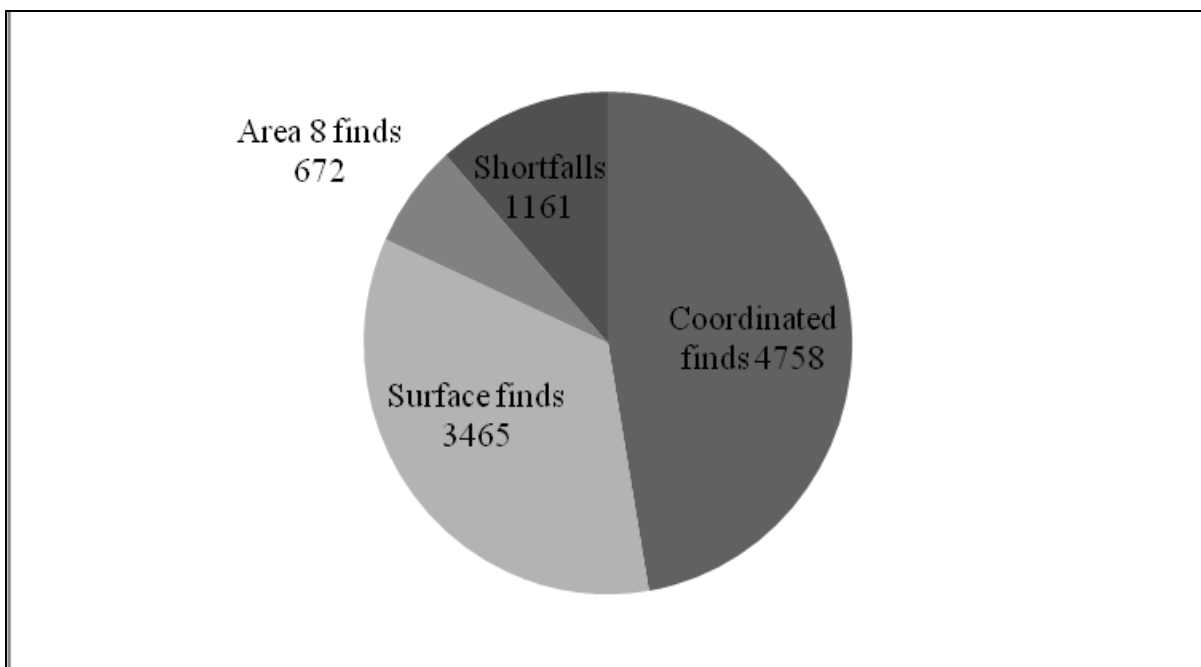
**Figure 5. 7** Classification of Thermal Structure types at Avgi I.



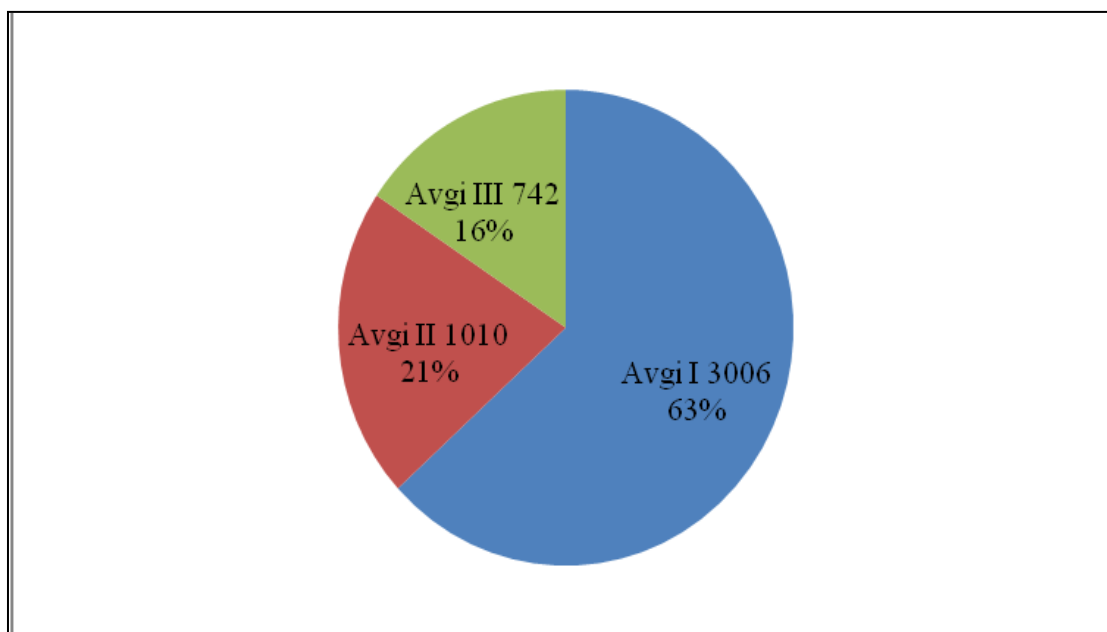
**Figure 5. 8** Classification of Thermal Structure types at Avgi II.



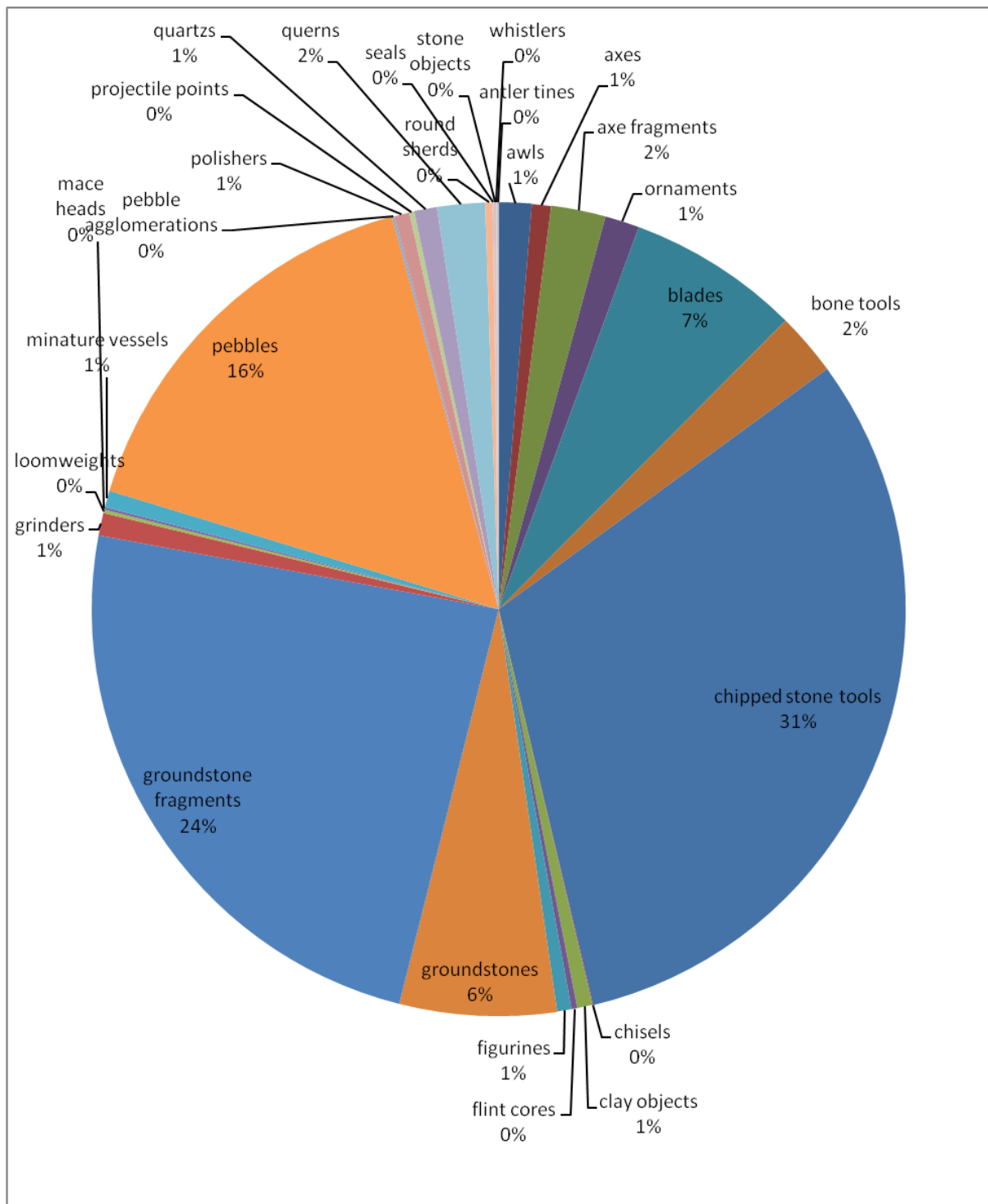
**Figure 5. 9** Selection process for the 10056 finds used in the spatial analysis at Avgi.



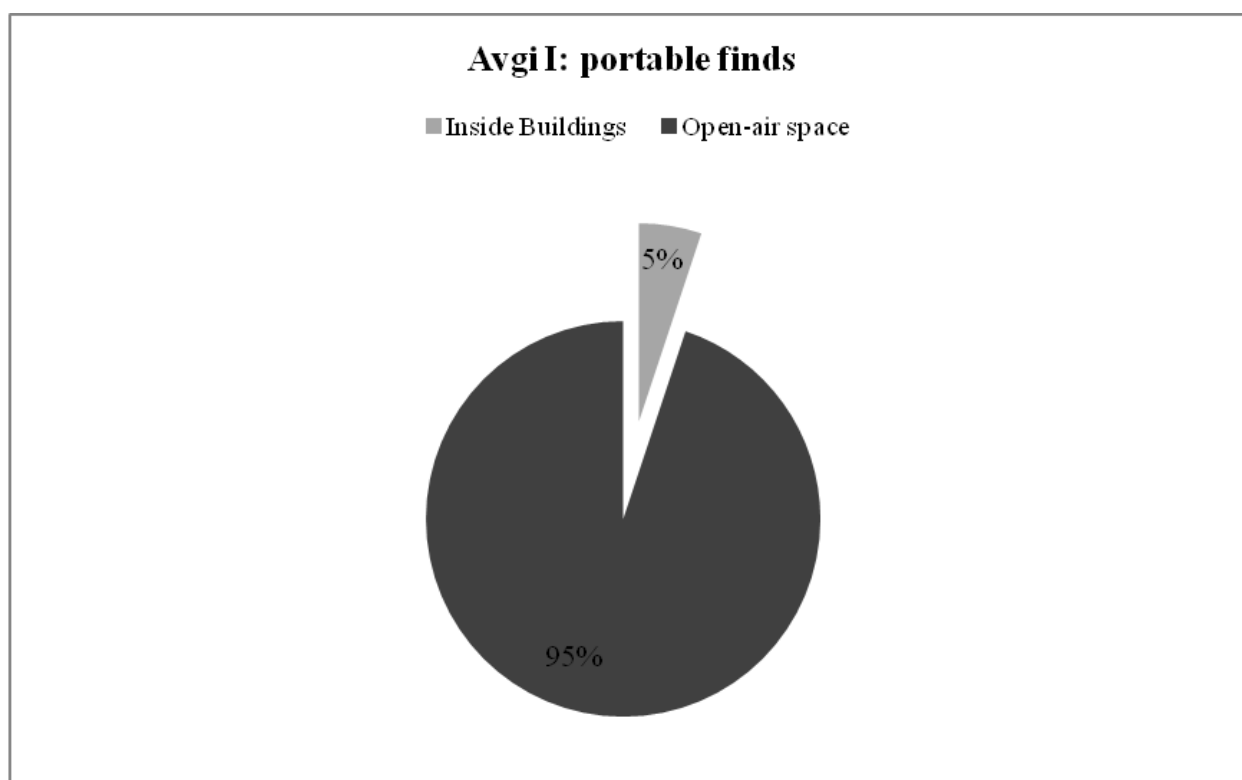
**Figure 5. 10** Distribution of the total 4758 (100%) portable finds in each habitation phase at Avgi.



**Figure 5. 11** Percentages of total georeferenced finds in Avgi I.

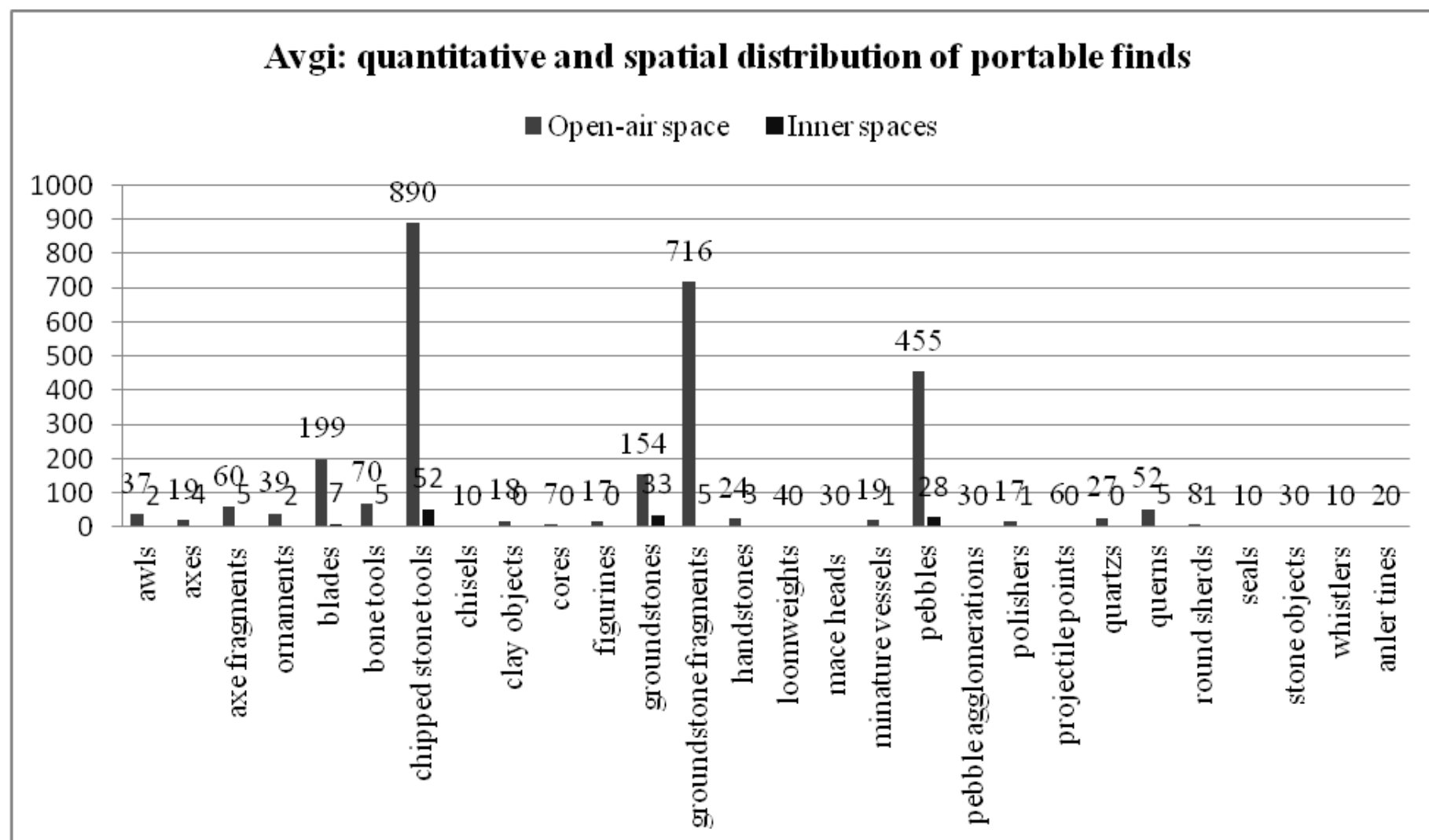


**Figure 5. 12** Percentage of portable finds inside buildings and in open-air spaces at Avgi I.

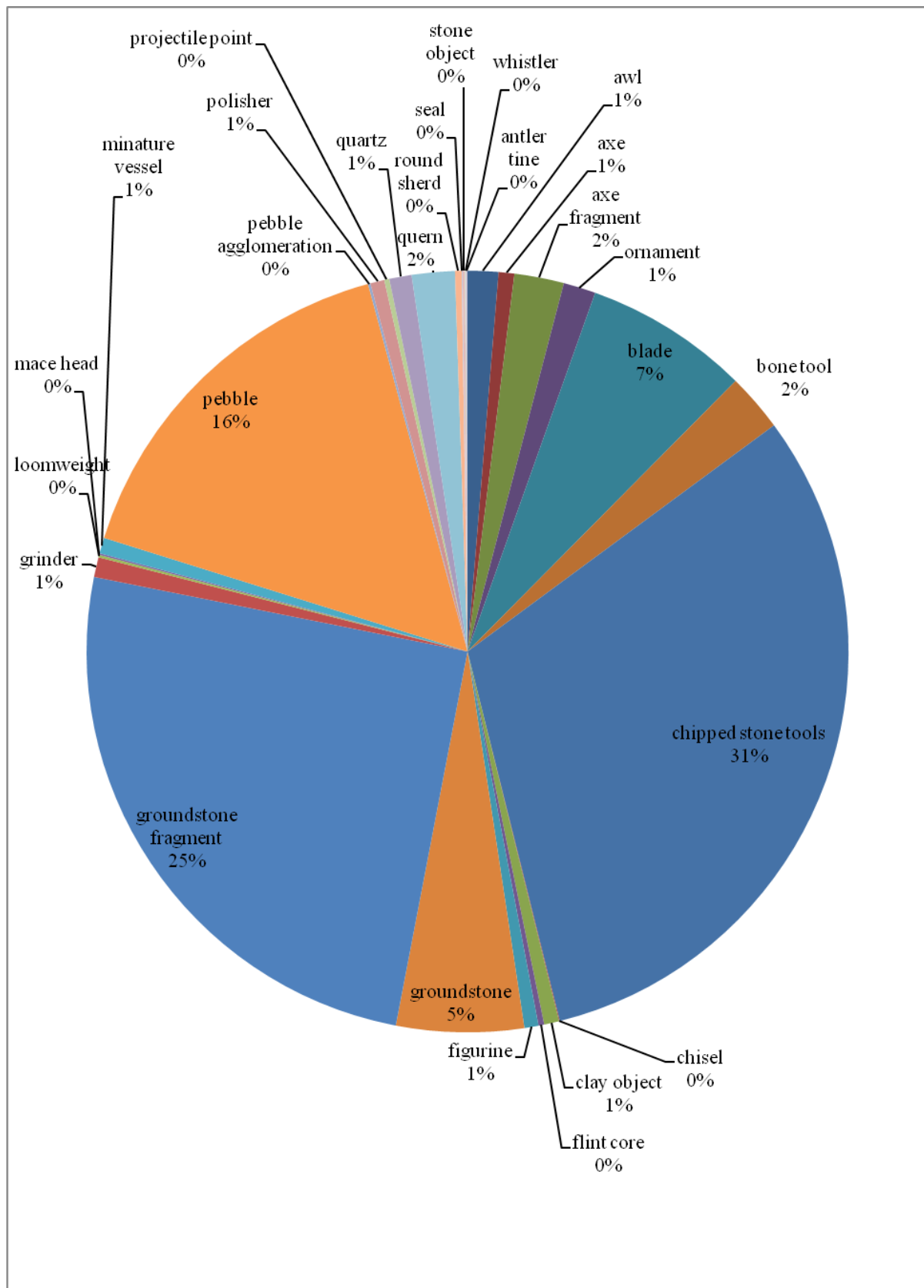




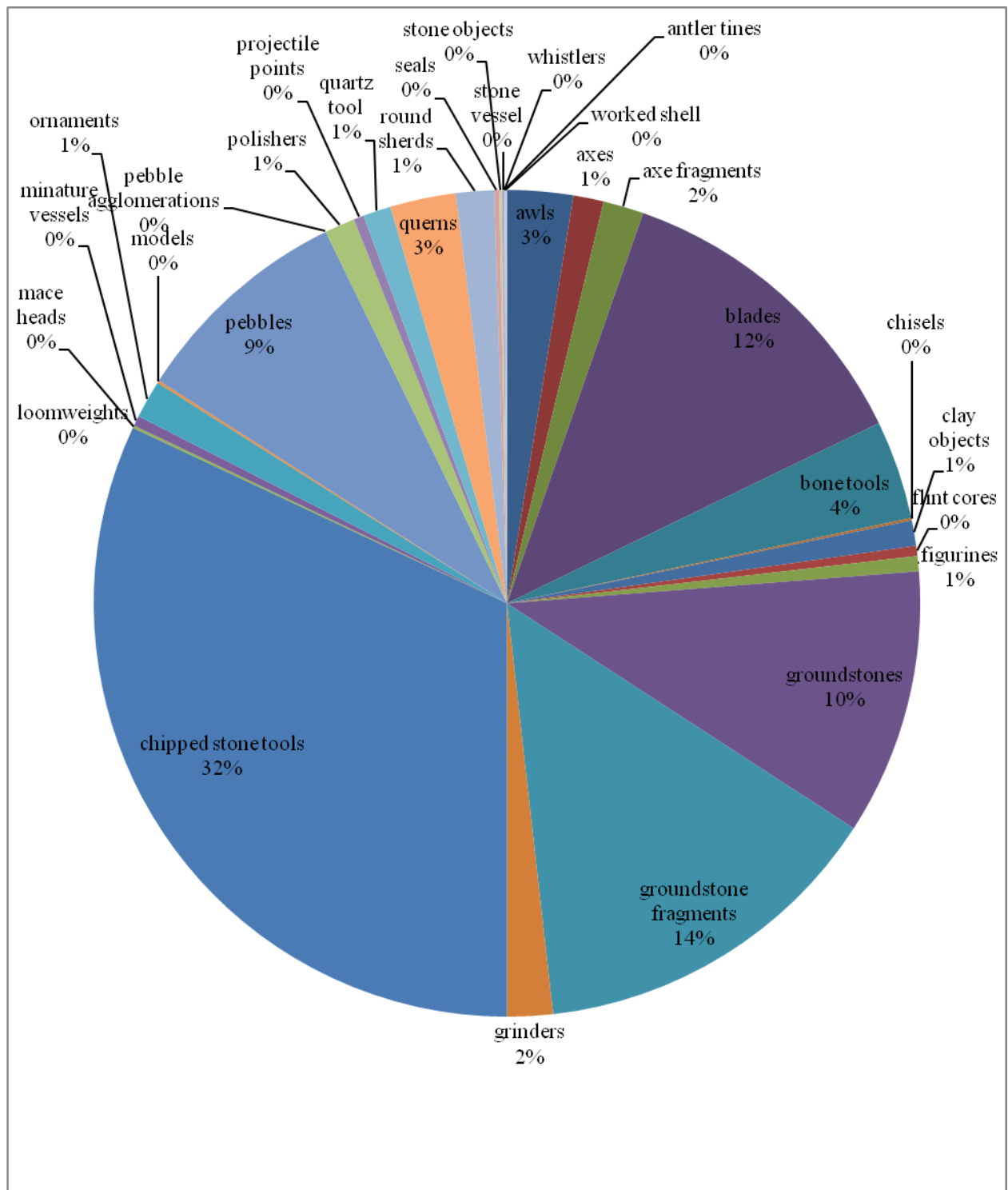
**Figure 5. 13** Quantitative and spatial distribution of finds in Avgi I



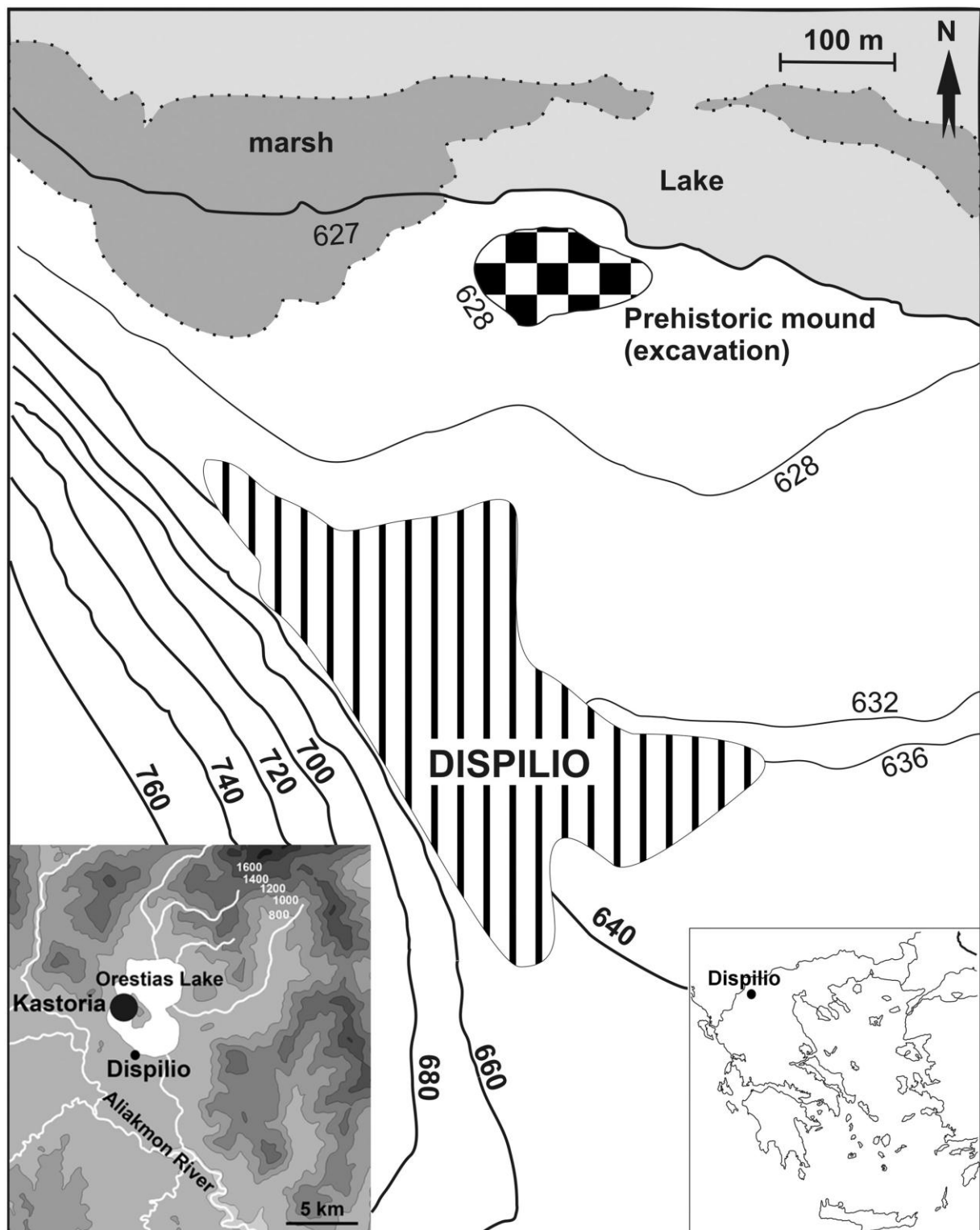
**Figure 5. 14** Percentages of finds unearthed in open-air spaces in Avgi I.



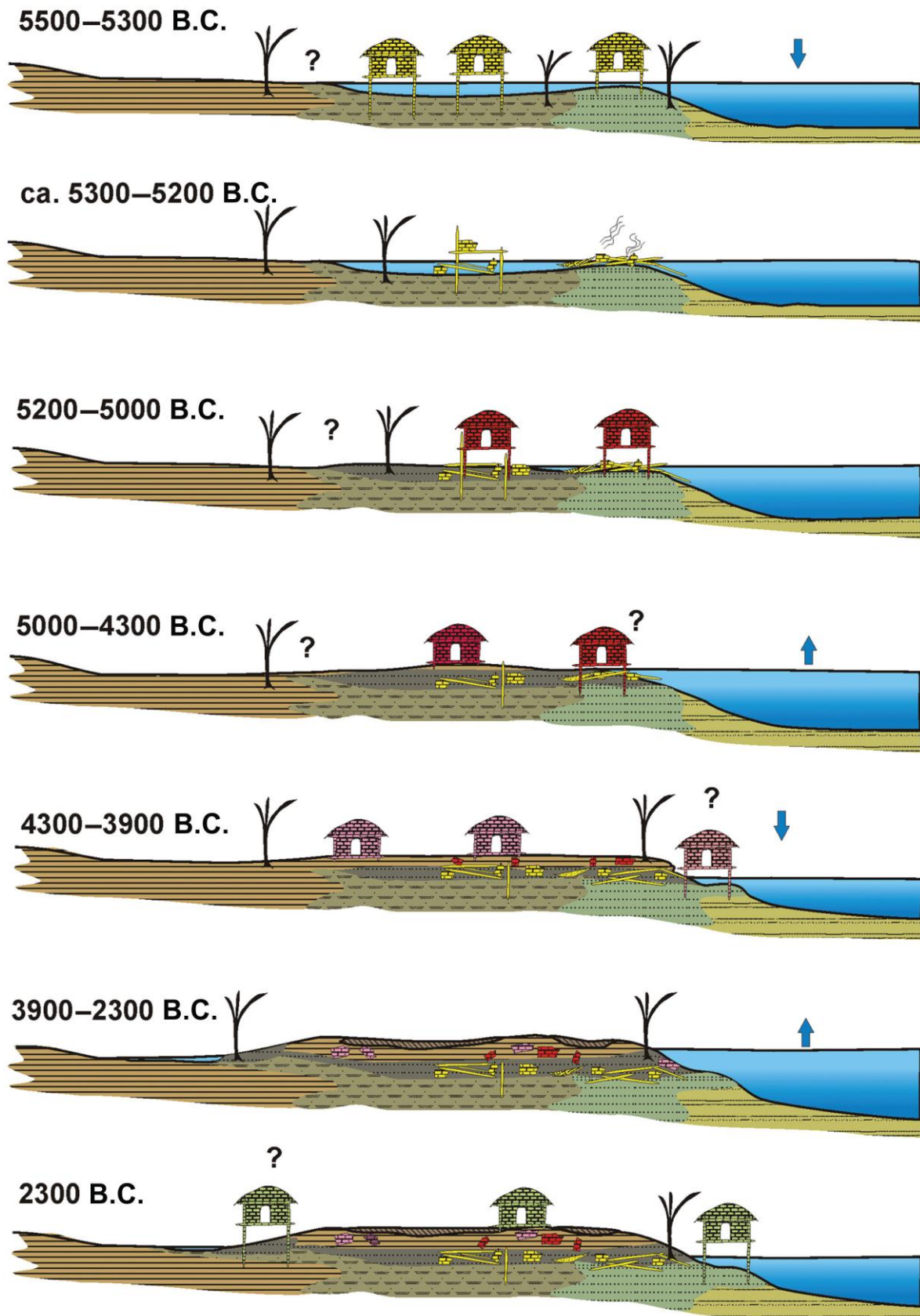
**Figure 5. 15** Percentages of total georeferenced finds in Avgi II.



**Figure 6. 1** Topographic map of the coastal area of Lake Orestias near Dispilio village, with the prehistoric mound. The inset shows the location of Dispilio in Greece (Karkanas *et al.* 2011, 85).



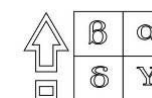
**Figure 6. 2** Evolution of the natural and architectural environment of Dispilio prehistoric mound from ca. 5500 to 2300 B.C. (Karkanas *et al* 2011, 108)





**Figure 6. 3** The excavation grid of Dispilio site: West, East and South Sectors. Each excavation square is 5.00 x 5.00 m. The peripheral pink shaded squares mark the edge of the mound and generally follow the ring wall (from Dispilio excavations archive).

287	286	285	188	187	186	185	184	183	182	181	180	179	178	169	168	167	166	157	156	155	154	312	313	314	352
284	283	282	195	194	193	192	191	190	189	177	176	175	174	165	164	163	162	153	152	151	150	310	311	315	353
281	280	279	202	201	200	199	198	197	196	173	172	171	170	161	160	159	158	148	147	146	145	308	309	316	354
278	277	276	205	204	203	144	143	142	141	108	107	106	105	96	95	94	93	84	83	82	81	306	307	317	355
275	274	273	208	207	206	140	139	138	137	104	103	102	101	92	91	90	89	80	79	78	77	304	305	318	356
272	271	270	211	210	209	136	135	134	133	100	99	98	97	88	87	86	85	76	75	74	73	302	303	319	357
269	268	267	214	213	212	132	131	130	129	36	35	34	33	24	23	22	21	12	11	10	9	300	301	320	358
266	265	264	217	216	215	128	127	126	125	32	31	30	29	20	19	18	17	8	7	6	5	298	299	321	359
263	262	261	220	119	118	124	123	122	121	28	27	26	25	16	15	14	13	4	3	2	1	296	297	322	360
260	259	258	223	222	221	120	119	118	117	72	71	70	69	60	59	58	57	48	47	46	45	294	295	323	361
257	256	255	226	225	224	116	115	114	113	68	67	66	65	56	55	54	53	44	43	42	41	292	293	324	362
254	253	252	229	228	227	112	111	110	109	64	63	62	61	52	51	50	49	40	39	38	37	290	291	325	363
251	250	249	248	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	231	230	288	289	326	364
351	350	349	348	347	346	345	344	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	327	365



**Figure 6. 4** Dispilio in its natural surrounding: the East Sector appears at the front right side of the picture, the South sector at the left side and the West Sector is showed at the centre back. At the front and the far back of the picture the historic perimeter wall is discernible (from Dispilio excavations archive).

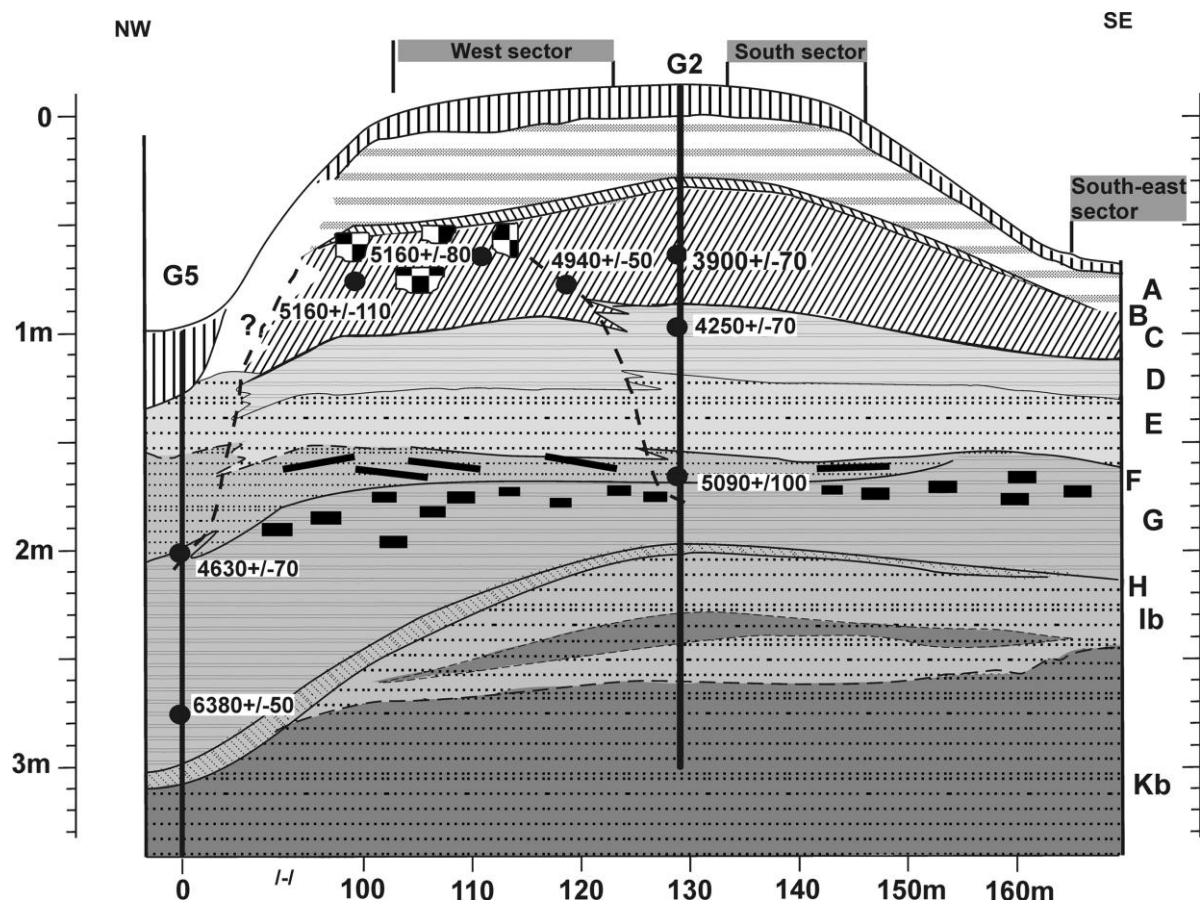


**Figure 6. 5** The stratigraphy sequence at the Eastern Sector in Dispilio lakeside site. Terrestrial Phase (Late Neolithic) is shaded in pink (from Dispilio excavations archive)

cm above surface	2α	2β	2γ	2δ	3α	3β	3γ	3δ	4α	4β	4γ	4δ	6β	6γ	6δ	7α	7β	7γ	7δ	8α	8β	8γ	8δ
<45	1	1	1	1	1	2	1		2(92)			1	1						2				3
46-50		2	2	2			2											2	3	2		3	
51-55		3	3	3	2@92	3@92				1		2	2	2	2			2					4
56-60	2	3	8	4	3		3	1α	3(92)			3		3	2							4	
61-65						3					1					2							5
66-70	3	6	7		2		4	1β	4(92)	2	2	4	3	4	3	3	2	3	4	3	3	4	
71-75				5	4																		
76-80		9				4	5	2		3	3	5		5	3			4			4	5	6(96)
81-85			6	2@93	3		6		1														
86-90			7					3	2						4	4							
91-95		12			4α	5(16/6)	7	3	3	4	4	6	4α		5α			5α	?	5	6	7α	
96-100				3@93										6				5					
101-105				4@93	5	5(23/6)	4		4	5	5(5/8)	7			5β	5	5		5β	4	7	7	
106-110	13				4β		8		4				4β		6	5				5			
111-115						5(16/7)	9		5	6	7							6		6	8	8	
116-120	14											6(98)											
121-125	15			7	5				6	8α	5(11/8)		5										
126-130	16				6		10		7														
131-135	17								8														
136-140		18	19	8	9				9				6										
141-145					7																		
146-150																							
151-155																							
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176-180																							
181-185																							
186-190																							
191-195																							
196-200																							
>200																							



**Figure 6. 6** North-west-southeast section of the mound, showing the different microfacies and calibrated  $^{14}\text{C}$  (Karkanas *et al* 2011, 93).

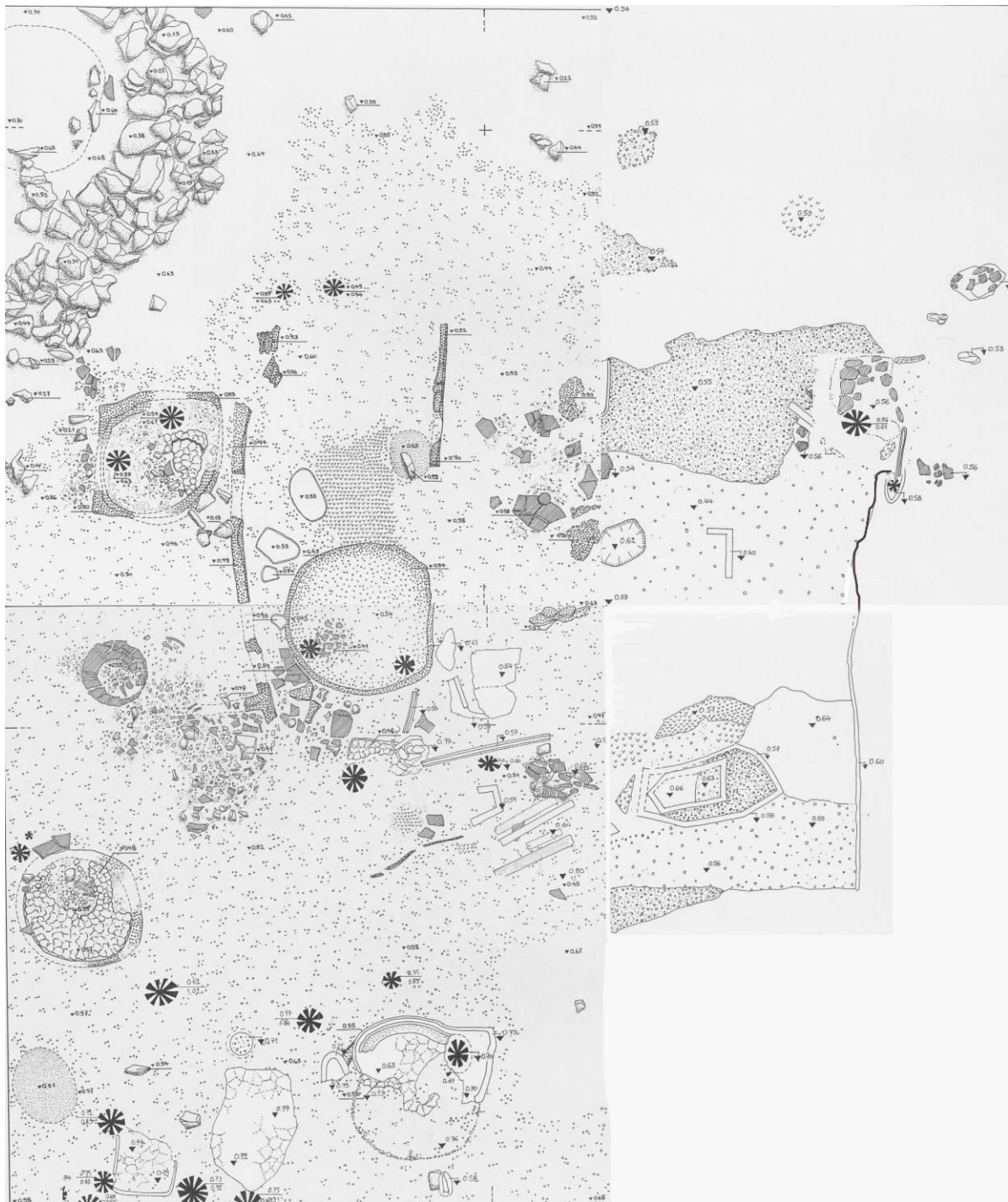


**Figure 6. 7** View of the Western Sector of Dispilio settlements (from Dispilio excavations archive).



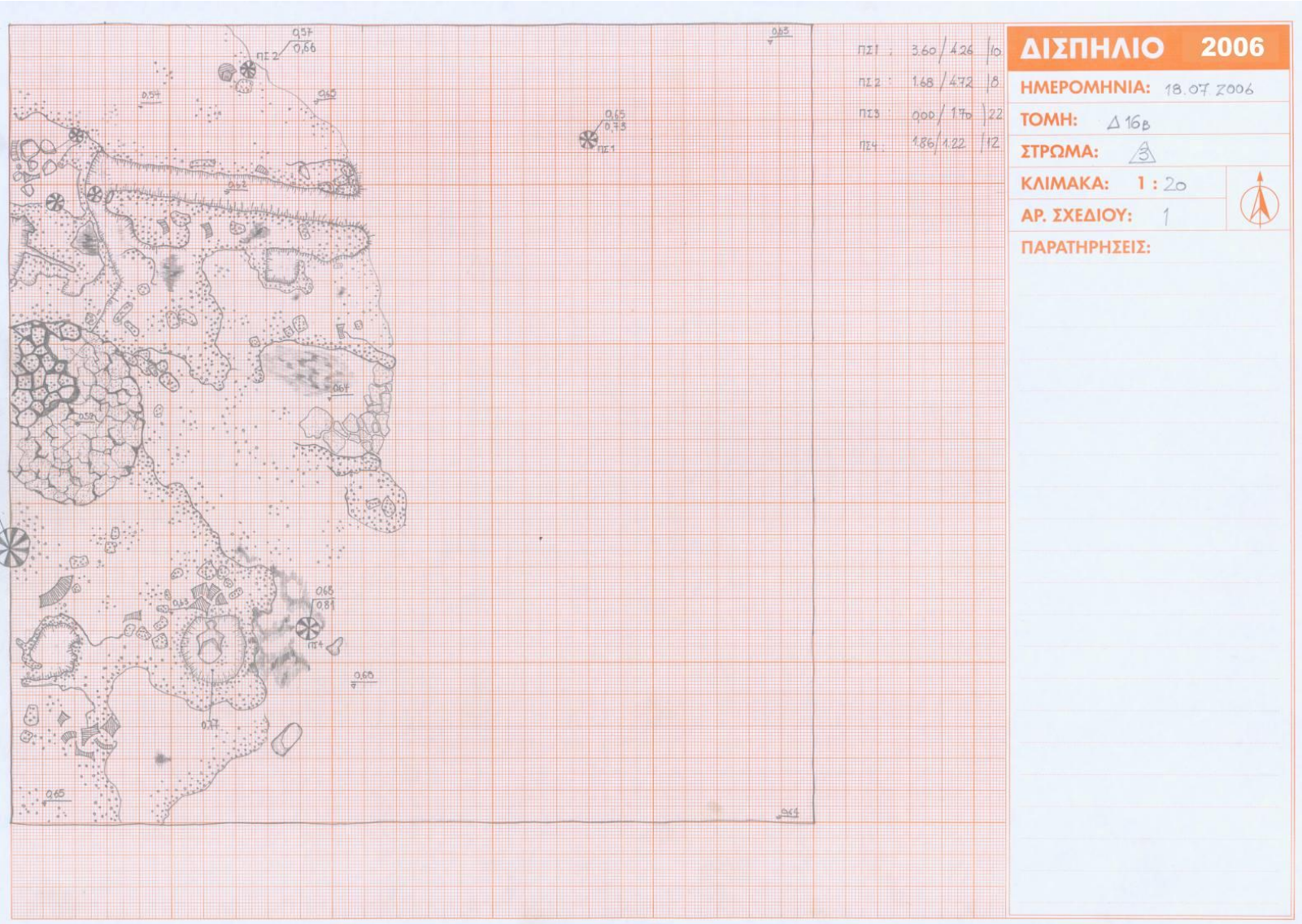


**Figure 6. 8** Spatial configuration of TS 1, TS 2, TS 3 and TS 4 in Building 1 (by Nassia Hourmouziadi, from Dispilio excavations archive).





**Figure 6. 9** Drawing depicting TS 5 at the north-eastern area of the Building 2 daub remains (by Nassia Hourmouziadi, from Dispilio excavations archive).



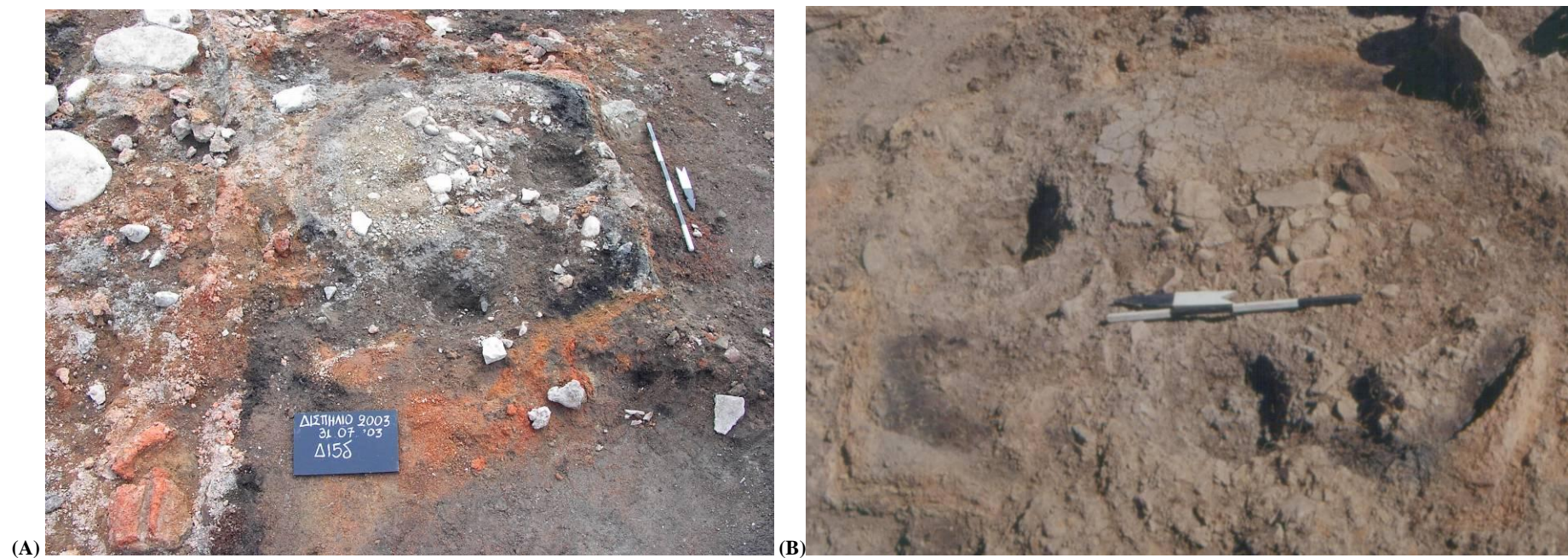


**Figure 6. 10** Picture of three ovens in Building 1. TS 1 is distinguished at the top left end of the picture. TS 2 is in the middle, where a layer of sherds is discernible at the south-western side of the feature and two querns are position on the north side of the structure. TS 3 is placed at the very bottom of the picture (from Dispilio excavations archive.)





**Figure 6. 11** (A) View of Thermal Structure 1. (B) Detail of two successive floor layers (from Dispilio excavation archive, picture taken on 1999).





**Figure 6. 12** (A) View of Thermal Structure 2 among the architectural remains of Building 1. (B) Detail of Thermal Structure 2: the distribution of querns, grinders and groundstone fragments at the south-western side of the oven is visible (from Dispilio excavation archives, picture taken on 2000).

(A)

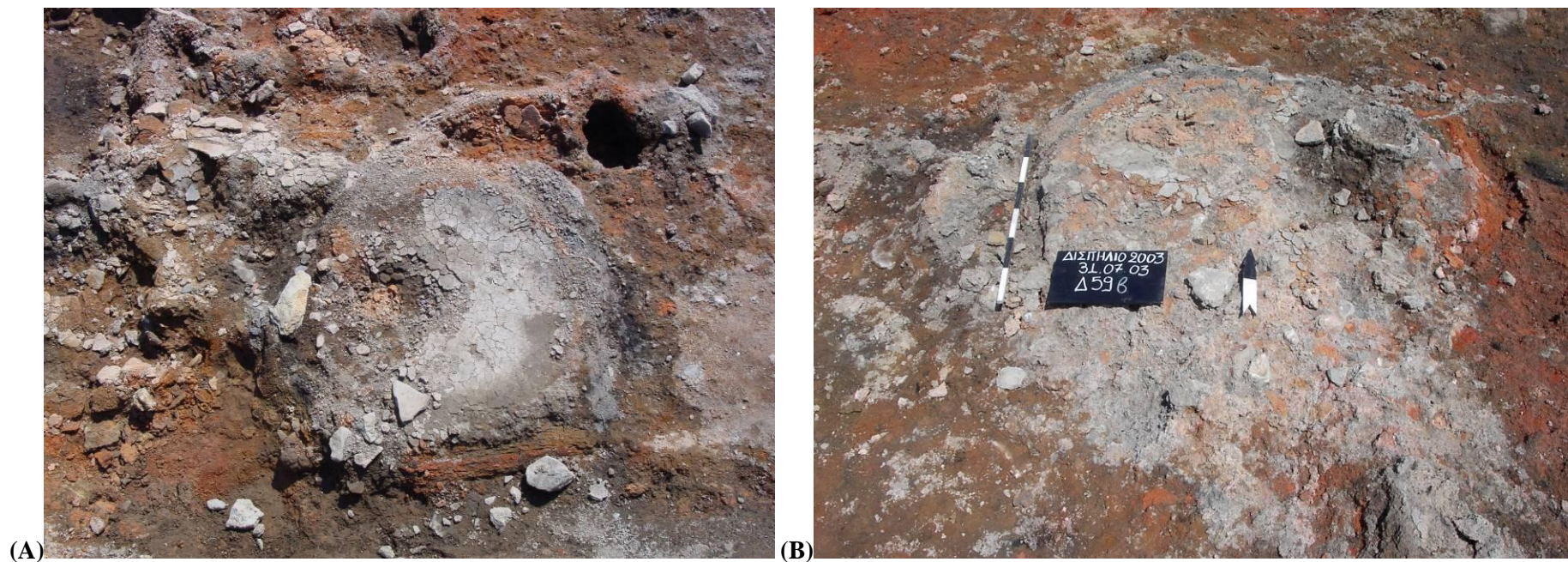


(B)



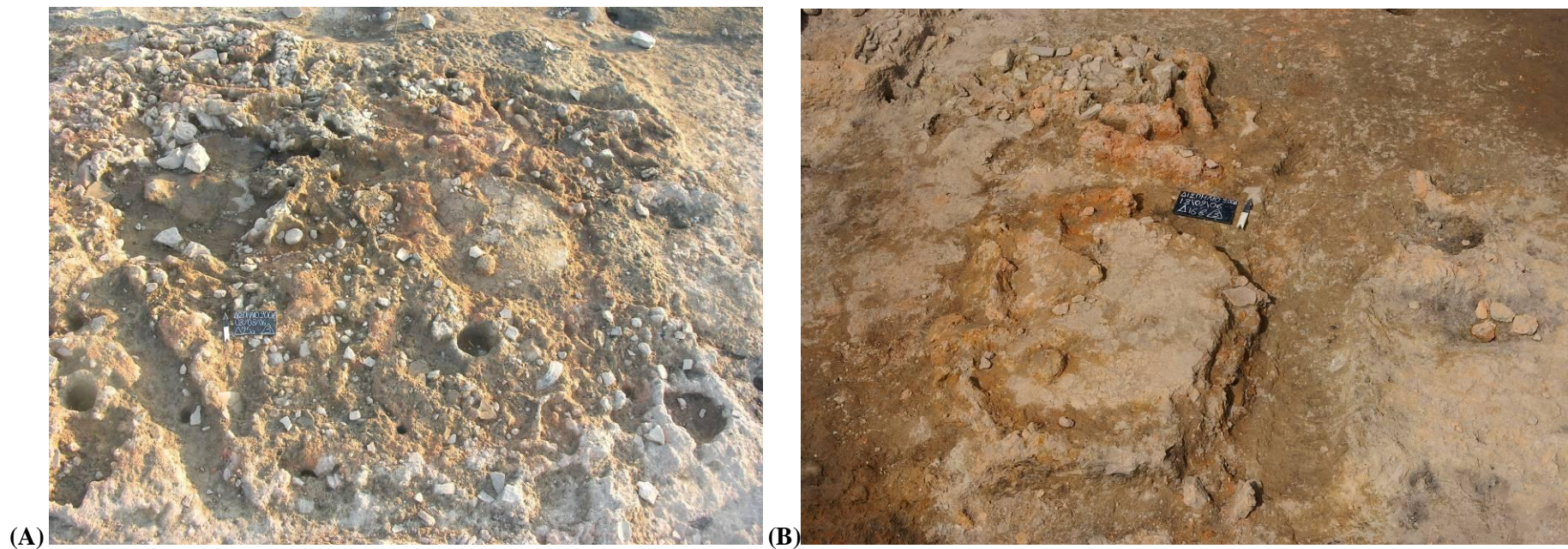


**Figure 6. 13** (A) View of Thermal Structure 3 in Building 1. (B) Thermal Structure 4, poor preservation (from Dispilio excavation archives, both pictures were taken on 2003).

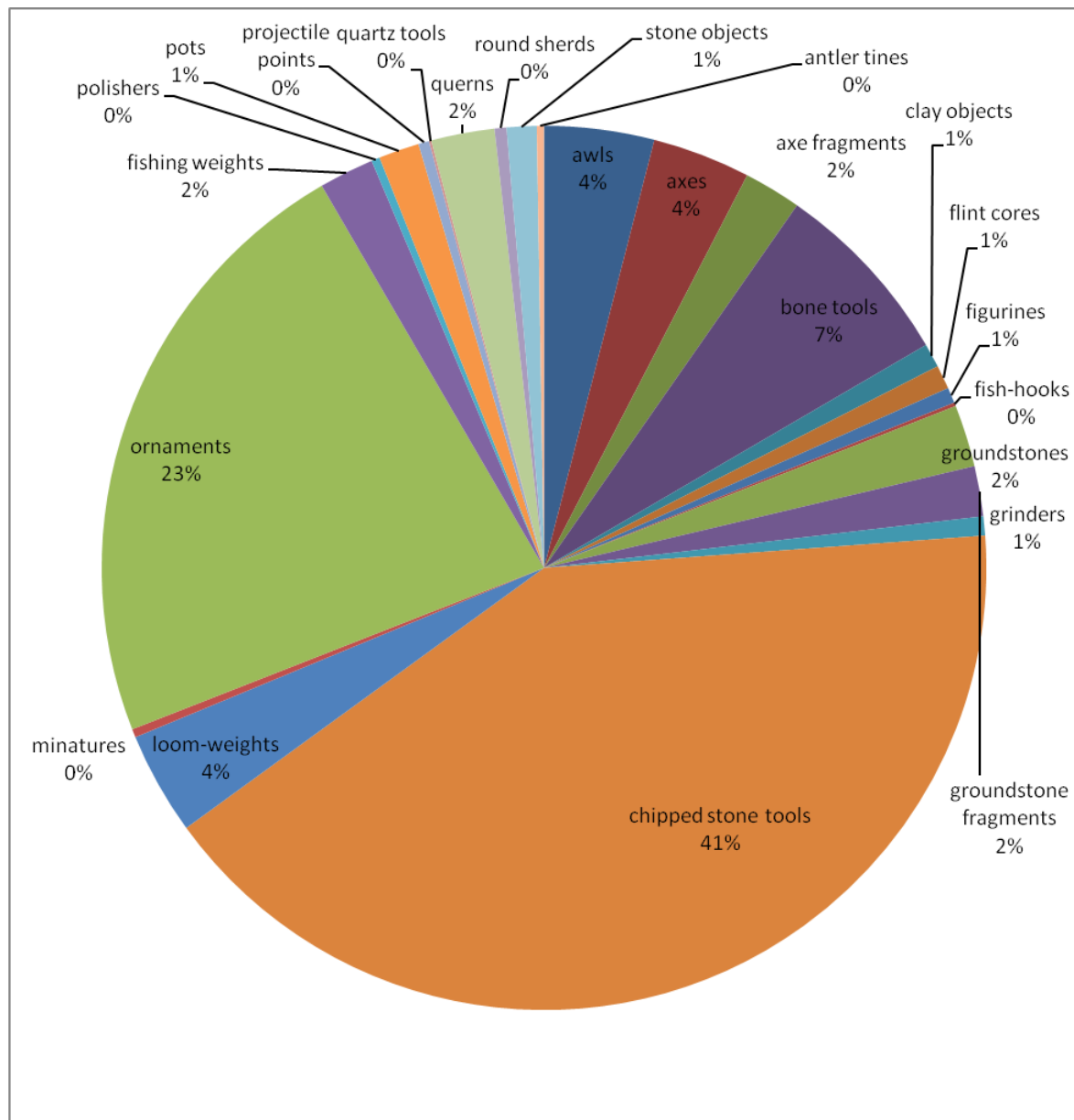




**Figure 6. 14** (A) View of Thermal Structure 5 in Building 2. (B) Detail of Thermal Structure 5 (from Dispilio excavation archives, both pictures were taken on 2006).

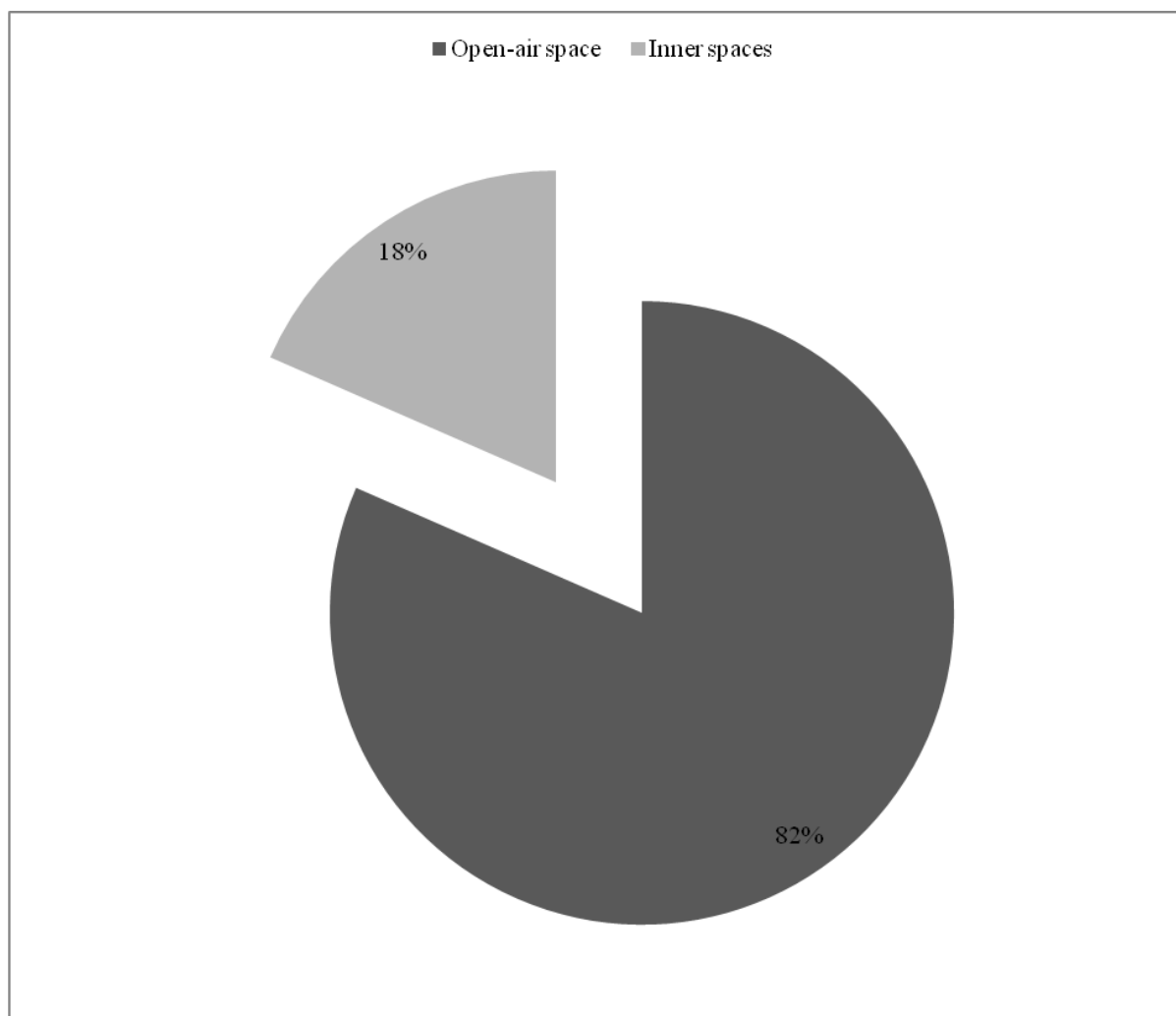


**Figure 6. 15** Percentages of georeferenced finds at the Western Sector at Dispilio, Phase A.

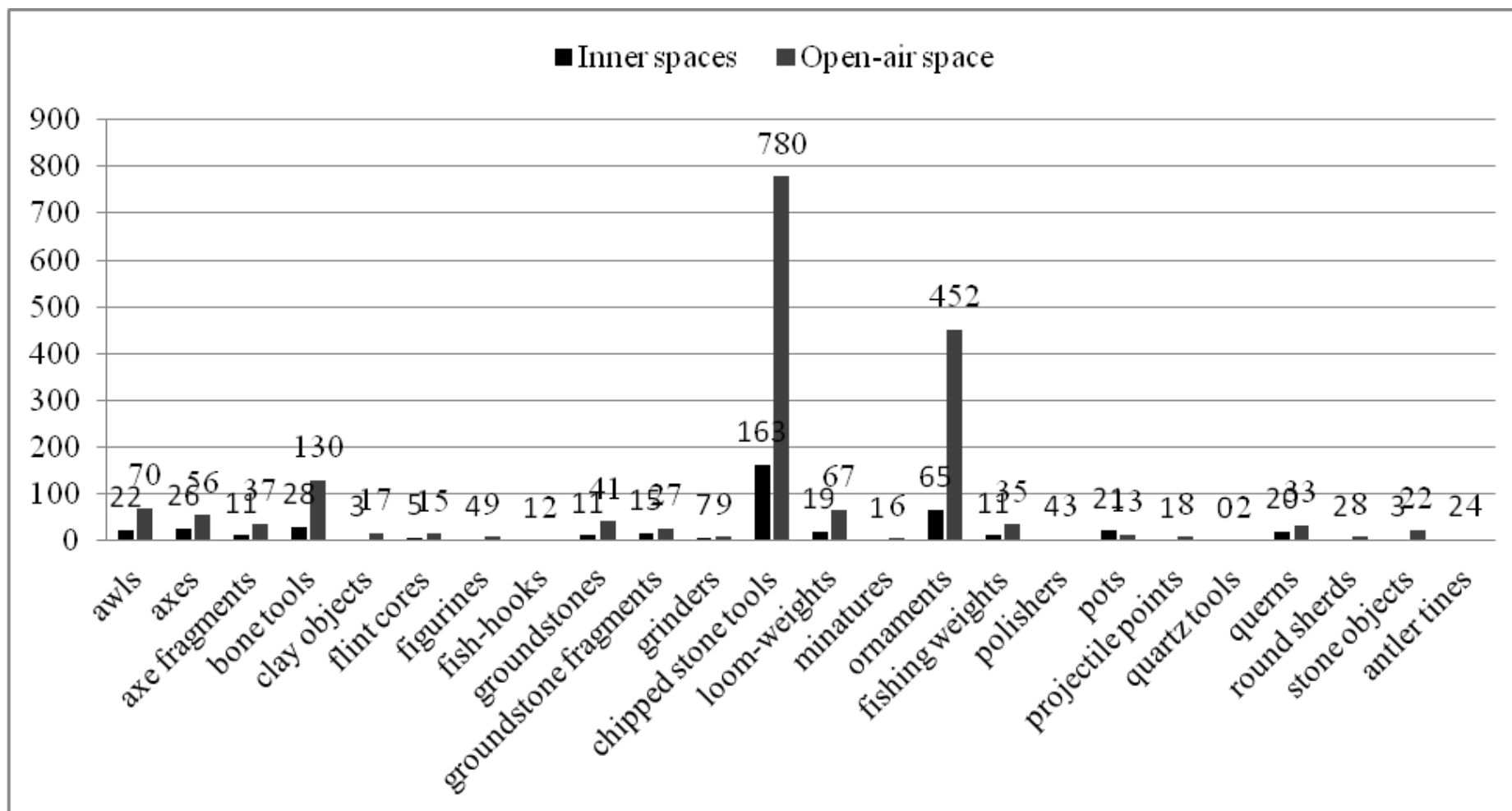




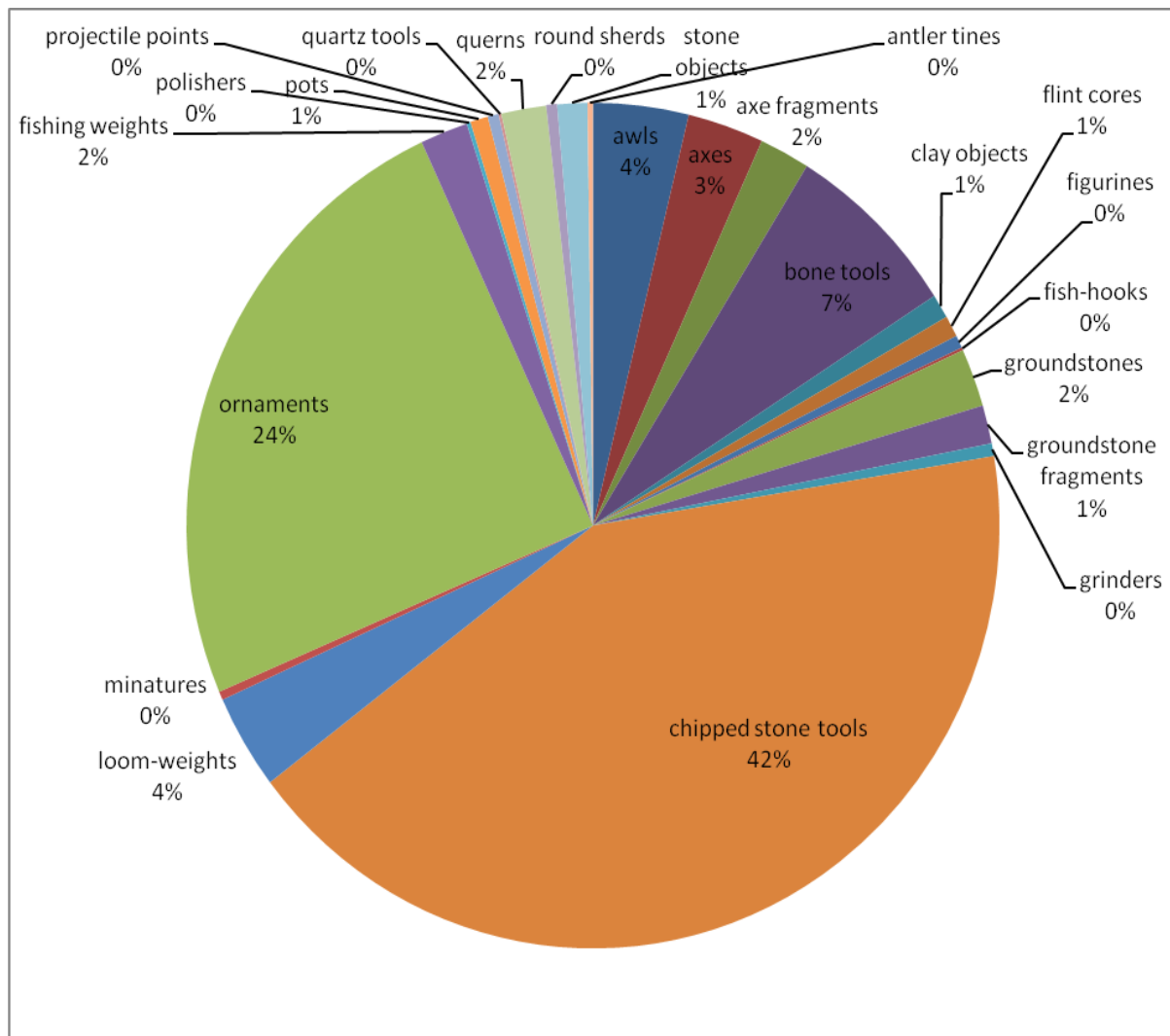
**Figure 6. 16** Percentage of portable finds inside buildings and in open-air spaces at the West Sector at Dispilio, Phase A. Avg. I.



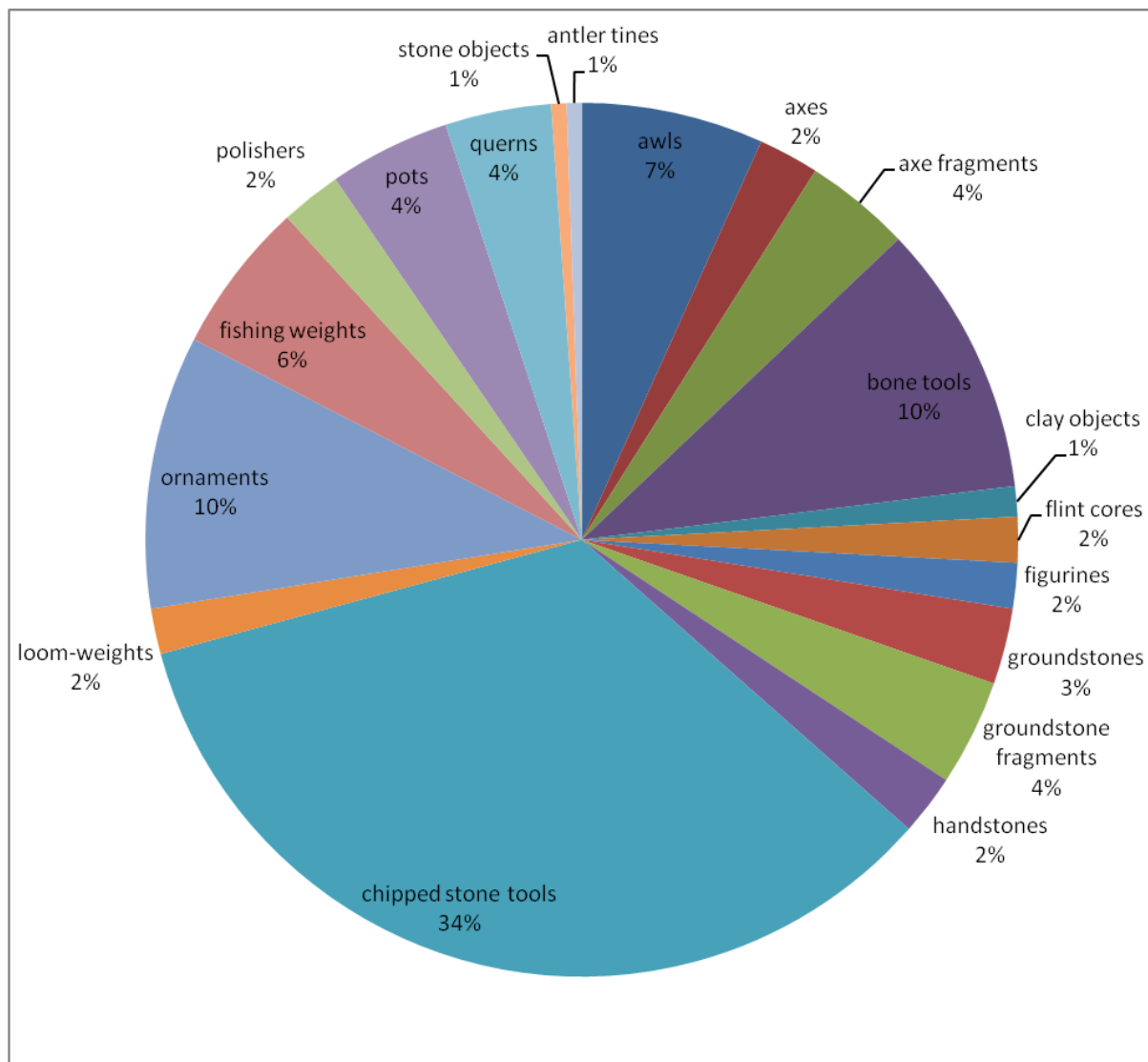
**Figure 6. 17** Quantitative and spatial distribution of finds at Dispilio in inner and open-air spaces.



**Figure 6. 18** Percentage of finds unearthed in open-air spaces in Dispilio.

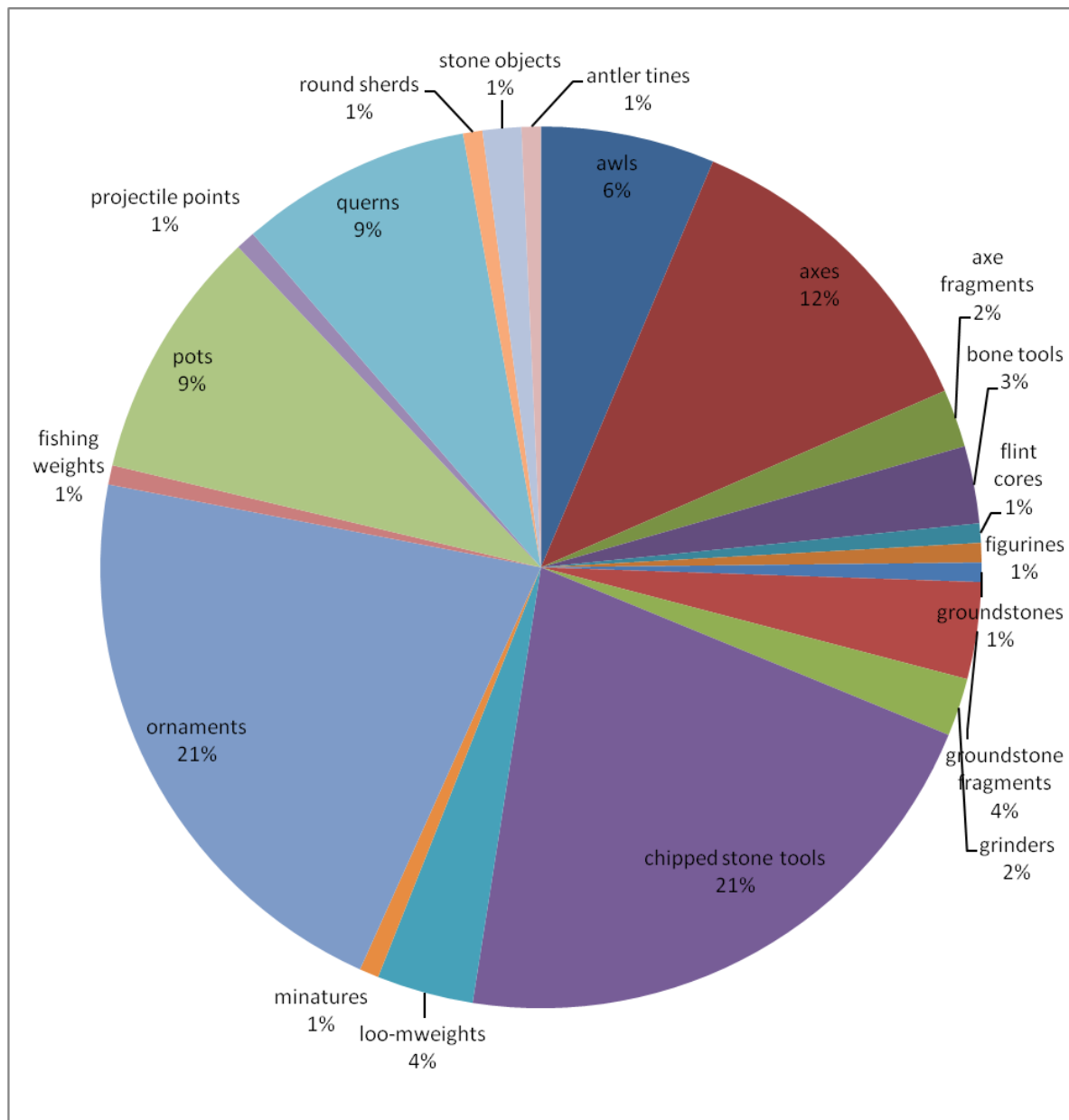


**Figure 6. 19** Percentage of finds unearthed in the deposits of Building 1.

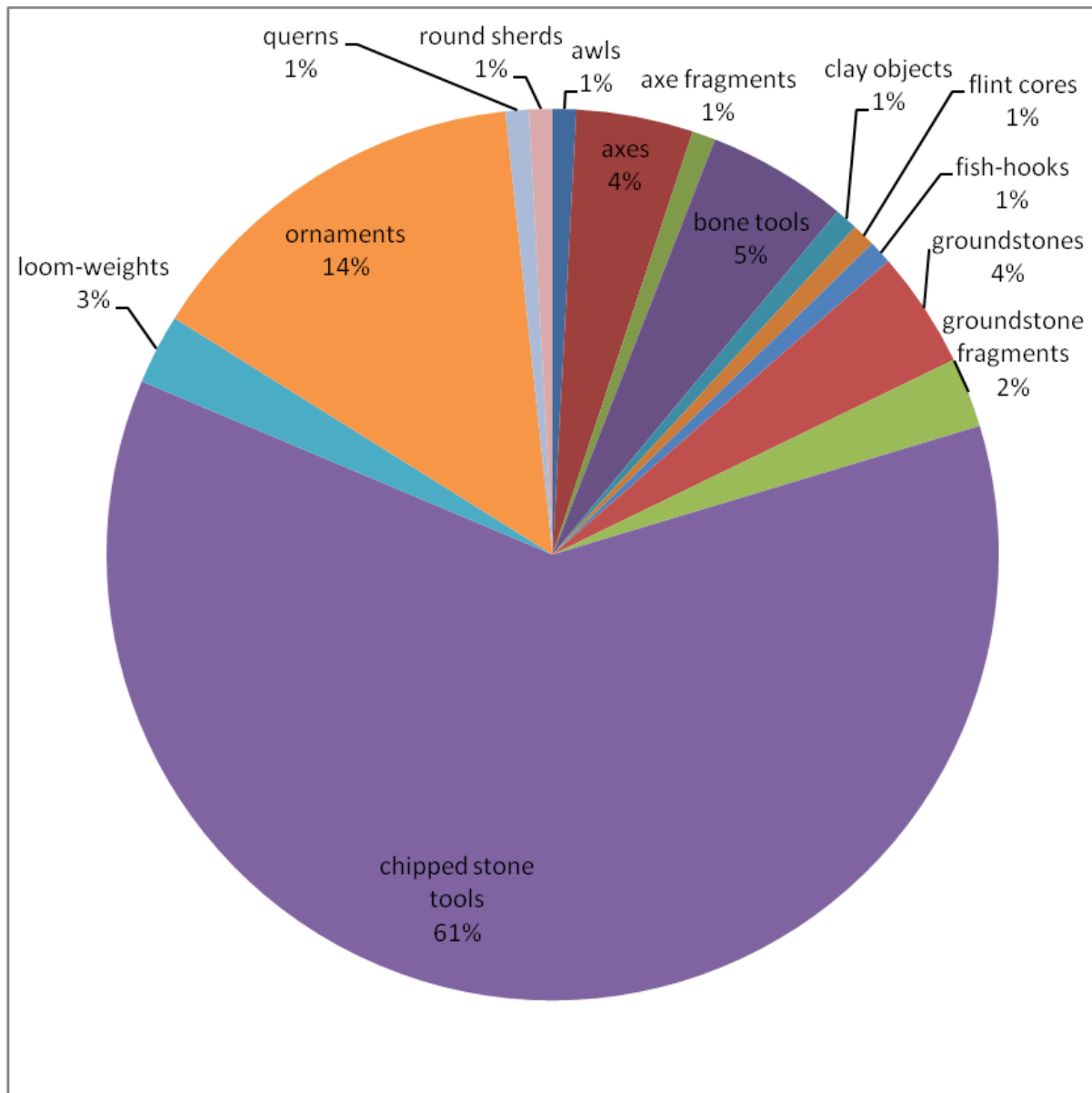




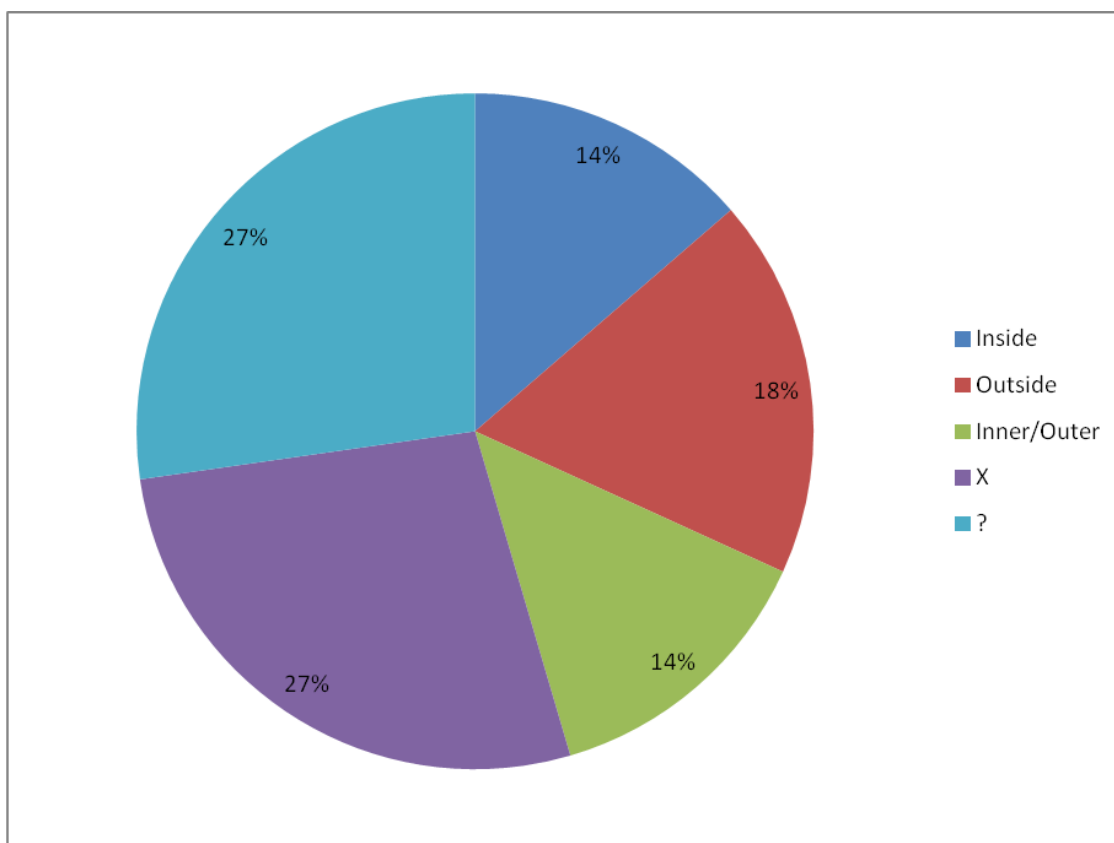
**Figure 6. 20** Percentage of finds unearthed in deposits of Building 2.



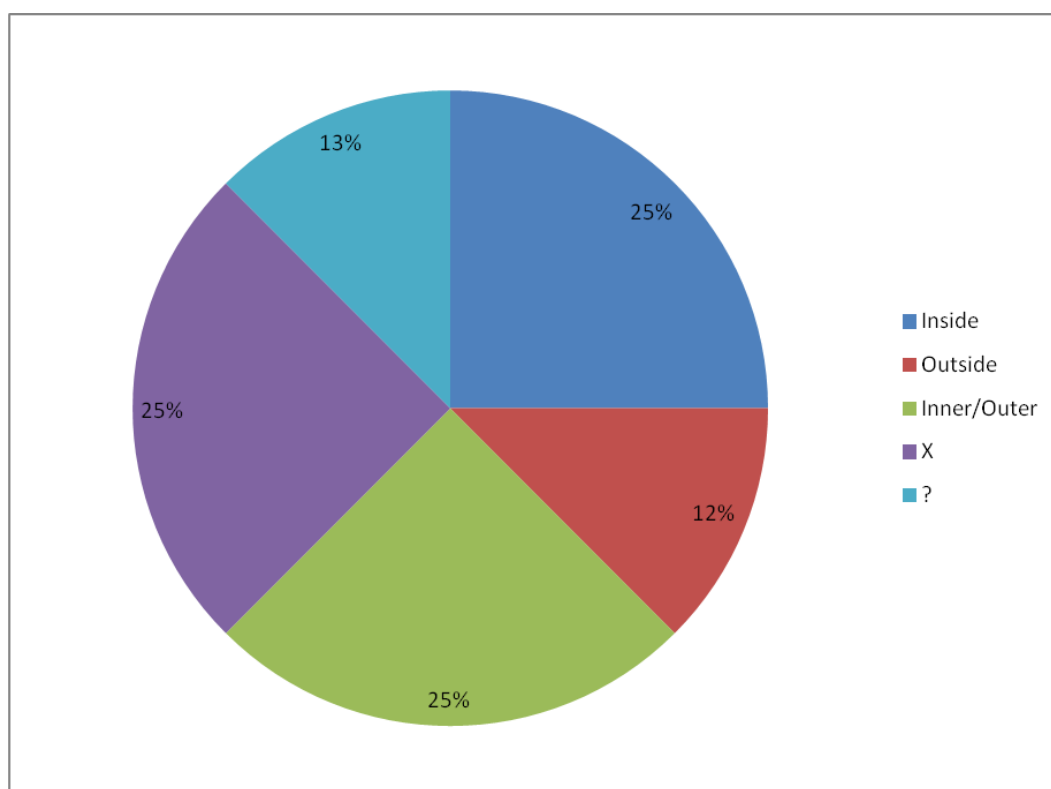
**Figure 6. 21** Percentage of finds unearthed in deposits of Building 3.



**Figure 7. 1** Schematic intra-site distribution of kitchen spaces in 19 MN sites in Macedonia and Western Thrace.



**Figure 7. 2** Schematic intra-site distribution of kitchen spaces in 24 LN sites in Macedonia and Western Thrace.

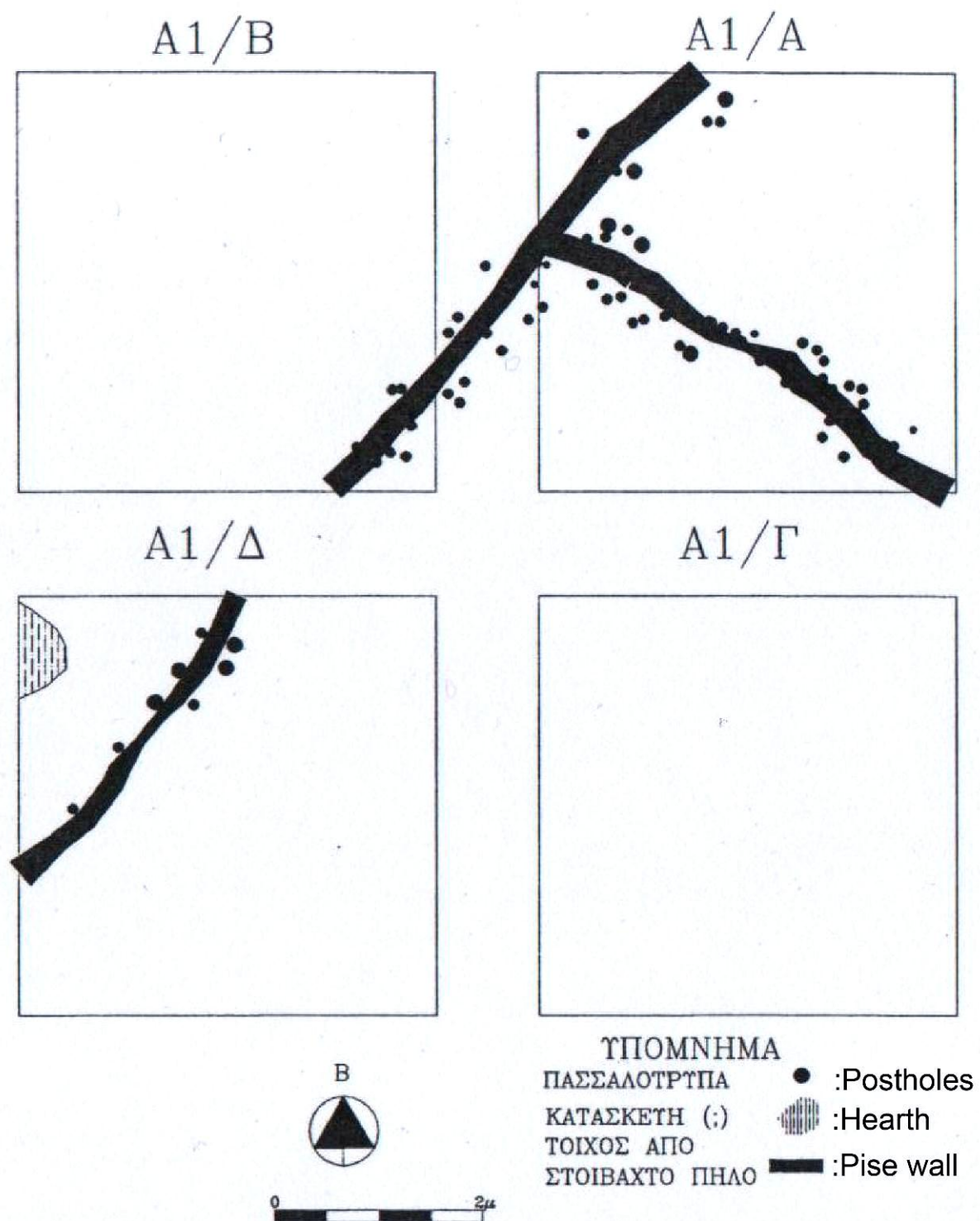


**Figure 7. 3** Arkadikos Dramas: trench A2/α illustrates two adjoining kitchen spaces located in the open-air space of the site. The semicircular row of postholes around the hearth suggests a sheltered construction (Touloumis and Peristeri 1991, 363).

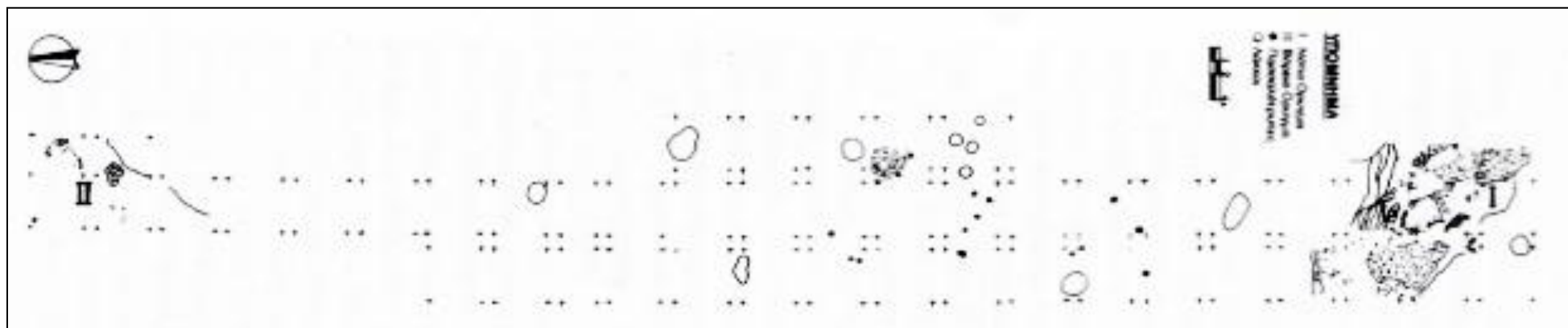




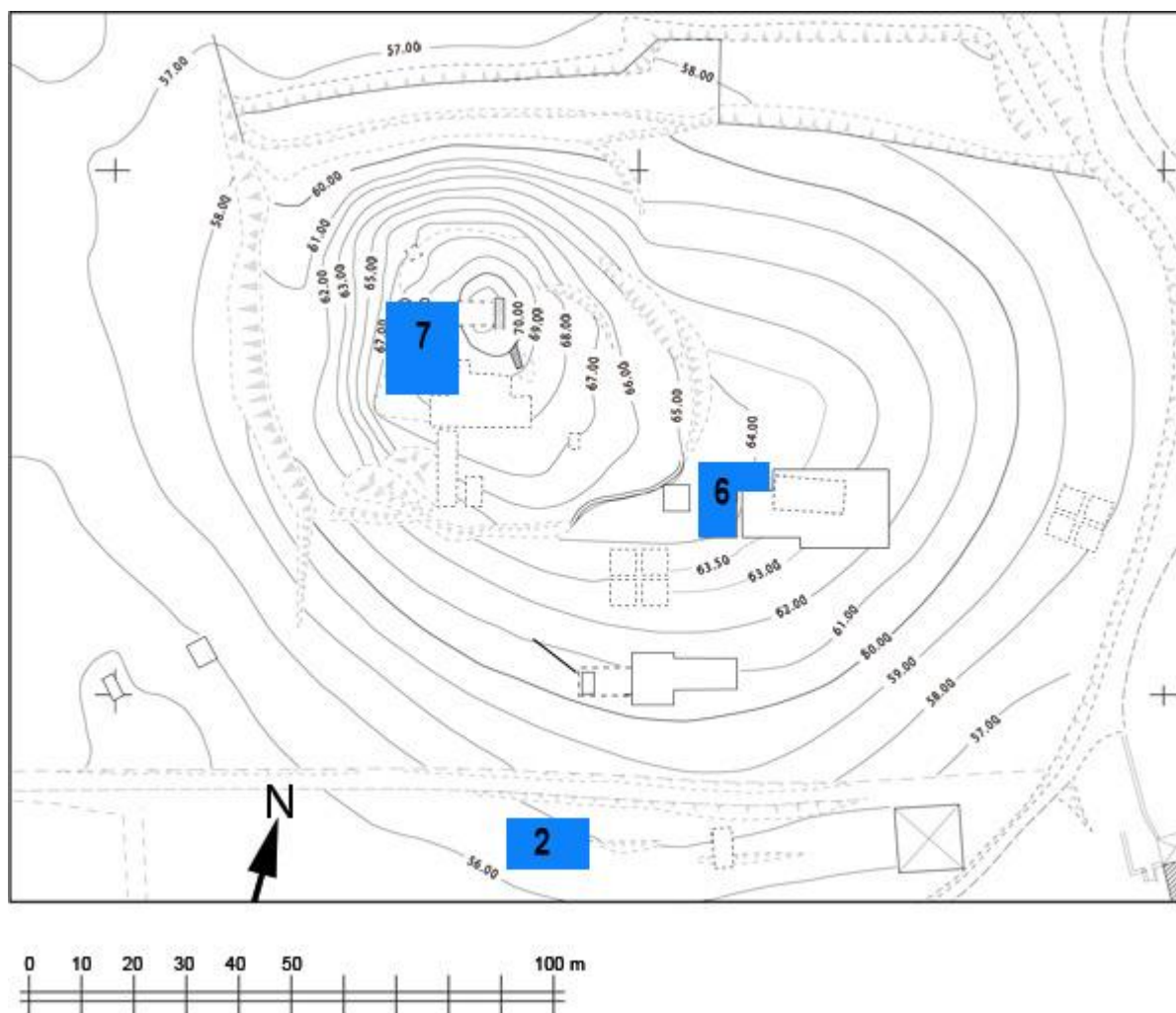
**Figure 7. 4** Arkadikos Dramas: trenches A1/B, A1/A, A1/Γ and A1/Δ illustrates a partial plan of a post-framed, pisé building. The hearth is located in close distance Outer the building in trench A1/Δ (Vargas, Touloumis, Anagnostou, Valamoti and Christidou 1992, 578).



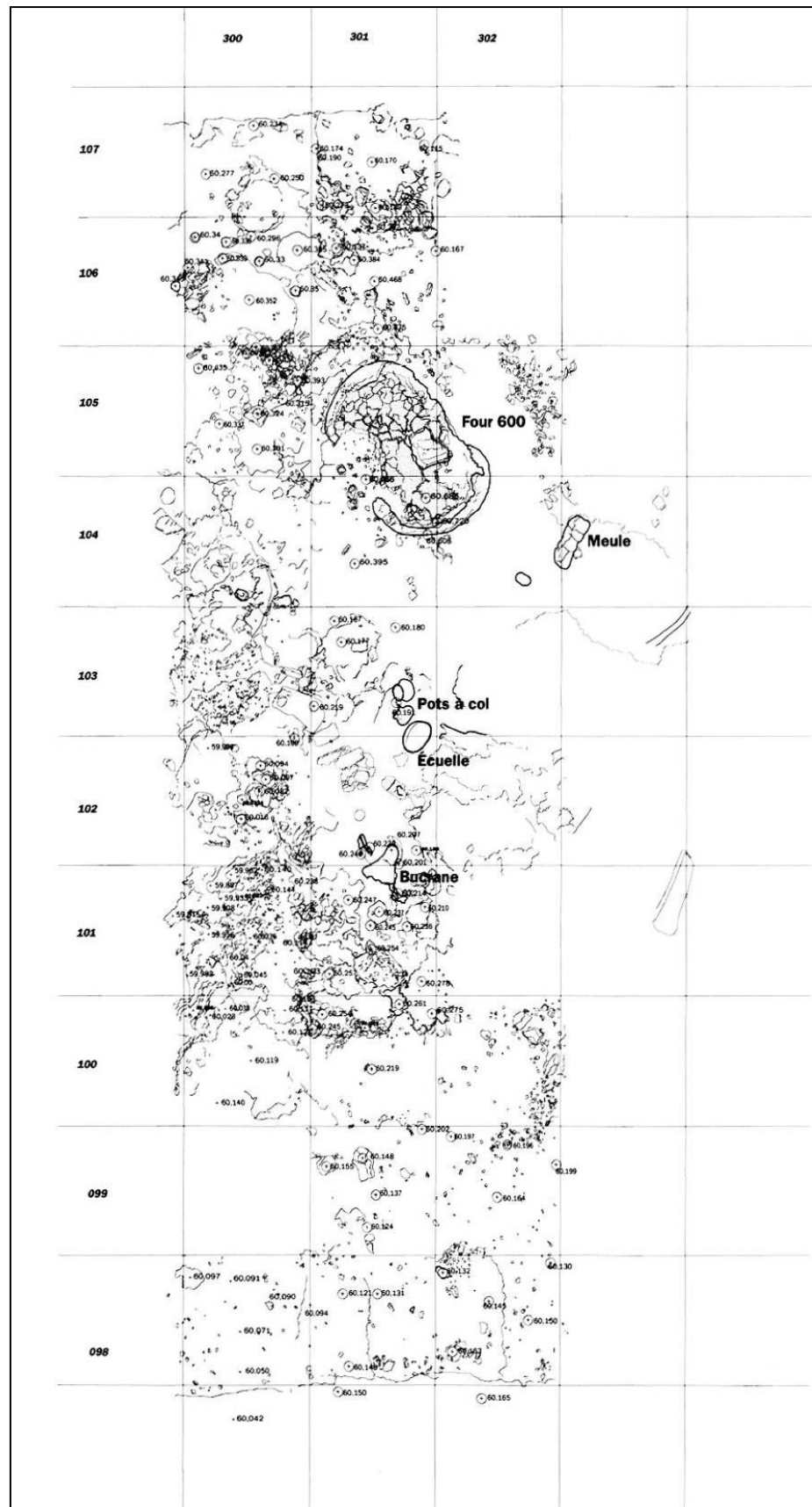
**Figure 7. 5** Grammi Pellas: site plan of the Neolithic site (Chrysostomou, Georgiadou, Polakidou and Prokopidou 2000, 495).



**Figure 7. 6** Dikili Tash Dramas: third research programme 2008-2011. Site plan of the excavated Sectors II, VI, VII ([http://www.dikili-tash.fr/content\\_en/recherche/prog3.htm](http://www.dikili-tash.fr/content_en/recherche/prog3.htm))

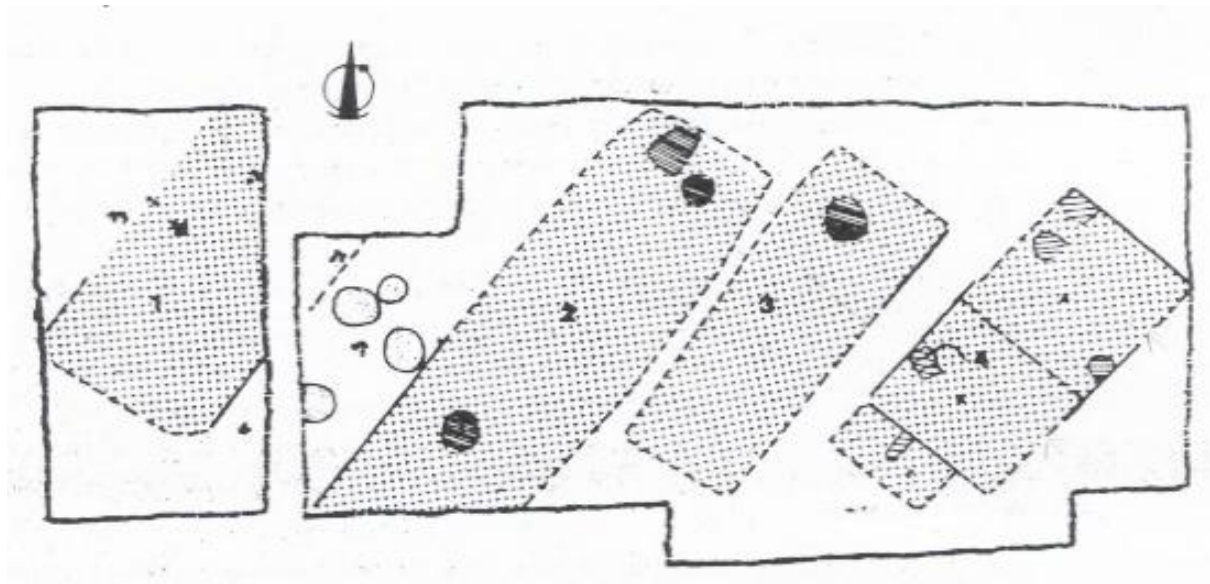


**Figure 7. 7** Dikili Tash Dramas: Sector VI. The plan illustrates the remains of House 1 dated in LN period. One oven and remains of household activities were found in the building (Treuil 1996, 865).

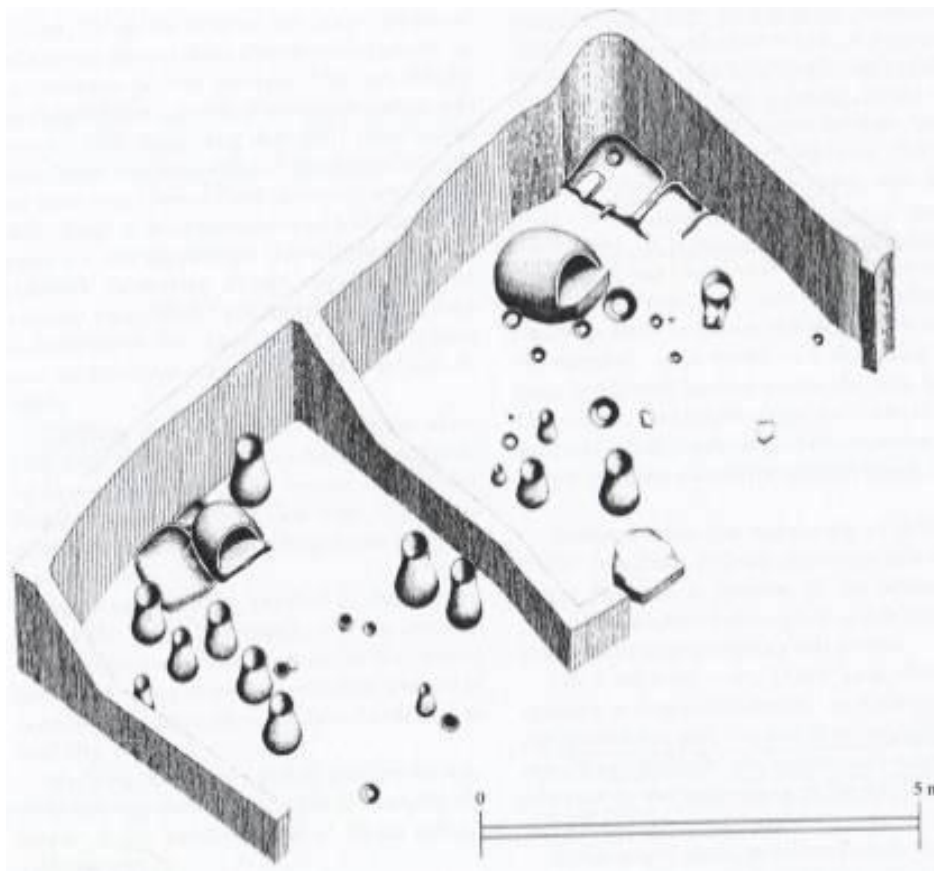




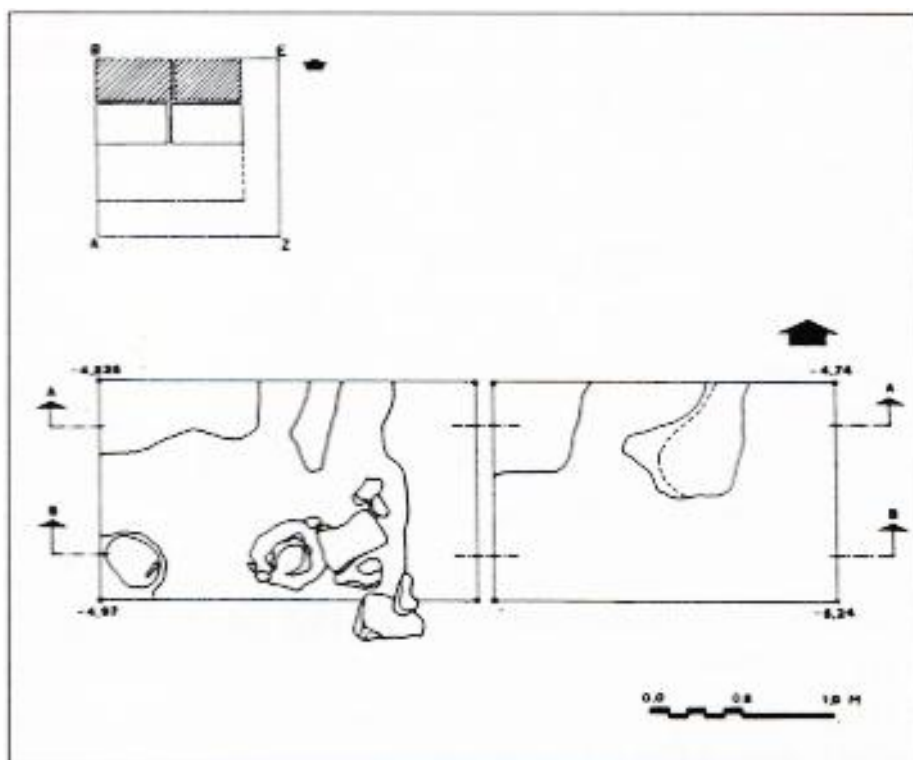
**Figure 7. 8** Dikili Tash Dramas: Sector VI, floor plan of four adjoining buildings. The buildings are numbered from 1 to 4 westwards to eastwards. Hearths and ovens are represented shaded in the plan. (Koukouli-Chrisanthaki, Treuil and Malamidou 1997, 690).



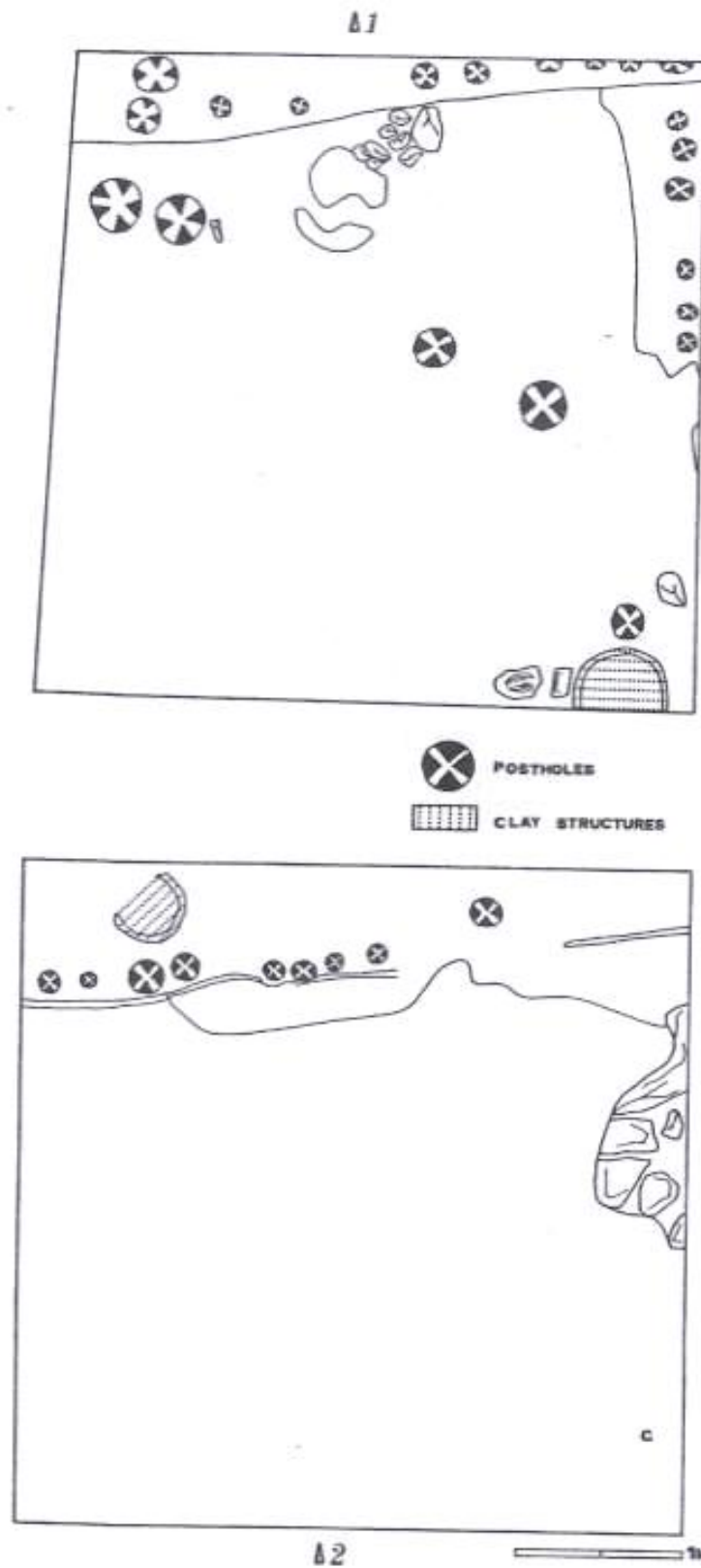
**Figure 7. 9** Dikili Tash Dramas: schematic reconstruction of the interior spatial distribution of features and finds of Building 4 (space A and B) in Sector VI (Darque *et al.* 200, 252).



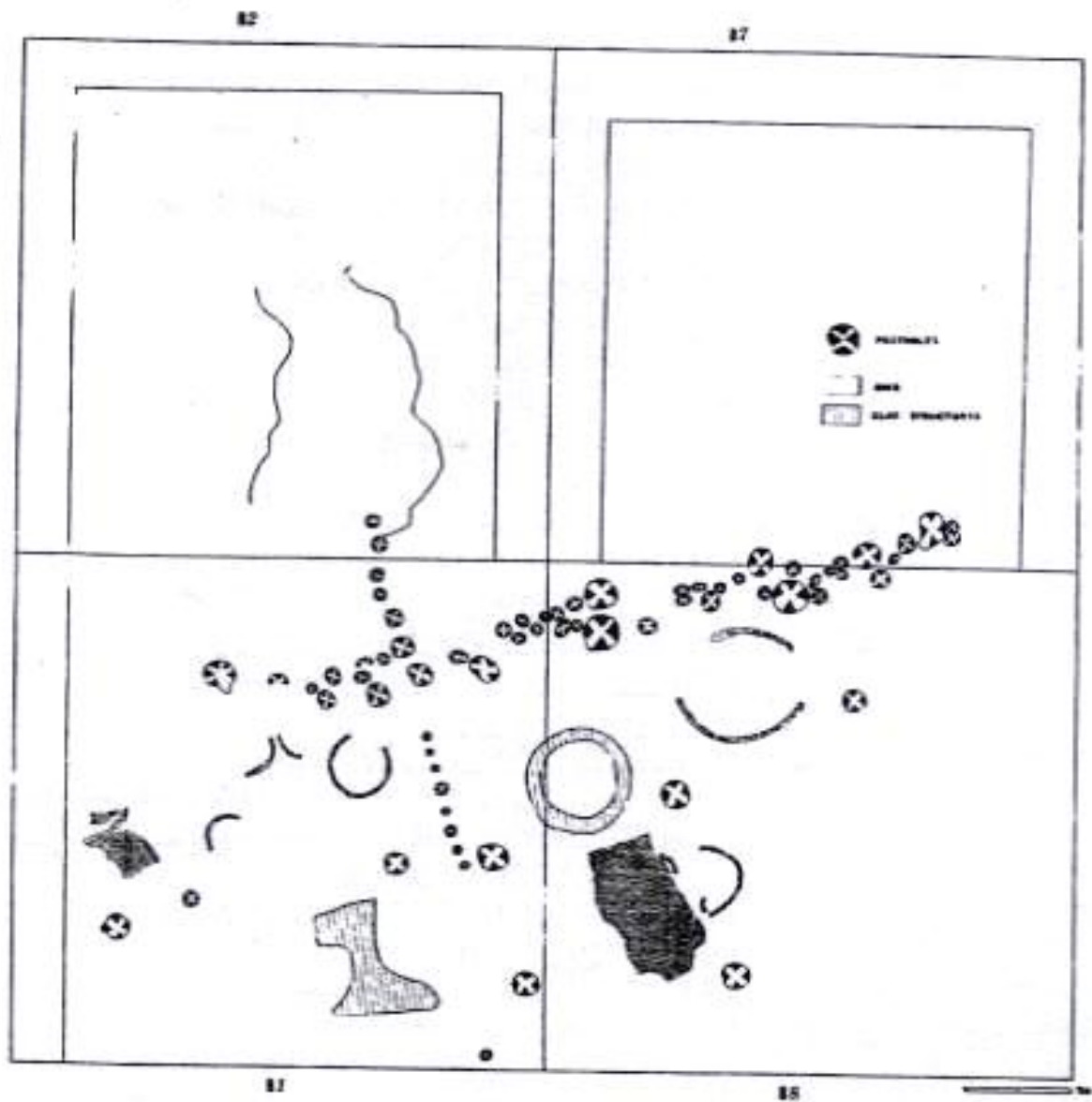
**Figure 7. 10** Dimitra Serres: trench II illustrates the remains of clay features, which possibly represents a hearth (Grammenos 1997, 53).



**Figure 7. 11** Makri Alexandroupolis, sector B, trenches Δ1 and Δ2: post-framed building in the residential area of the settlement. Two clay structures (thermal structures?) are recorded at the inner space of the building (Efstratiou *et al.* 1998, 16).

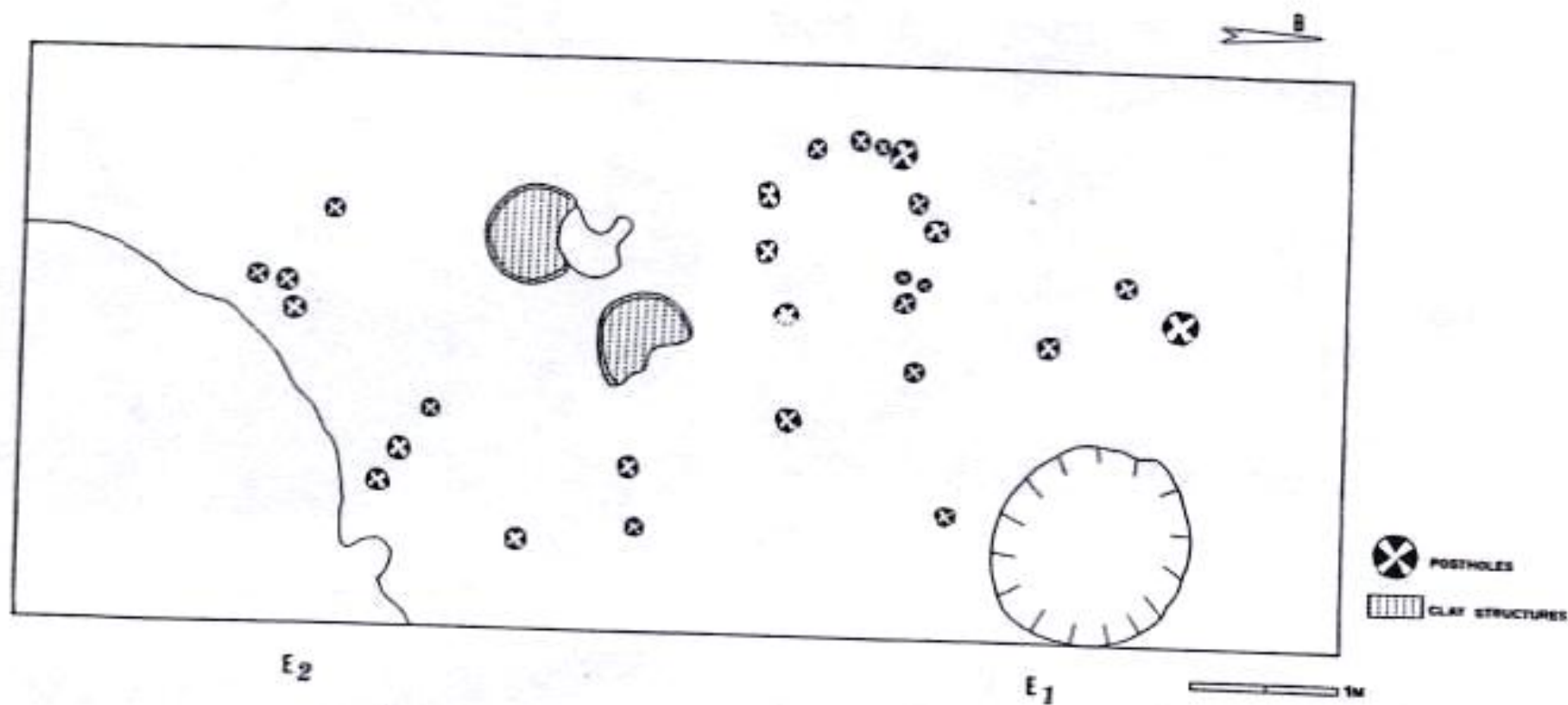


**Figure 7. 12** Makri Alexandroupolis, trenches B1, B2, B7 and B8: the ‘Complex Area’ shows the remains of a post-framed structure, storage pots and other clay features (thermal structures?) (Efstratiou *et al.* 1998, 26).

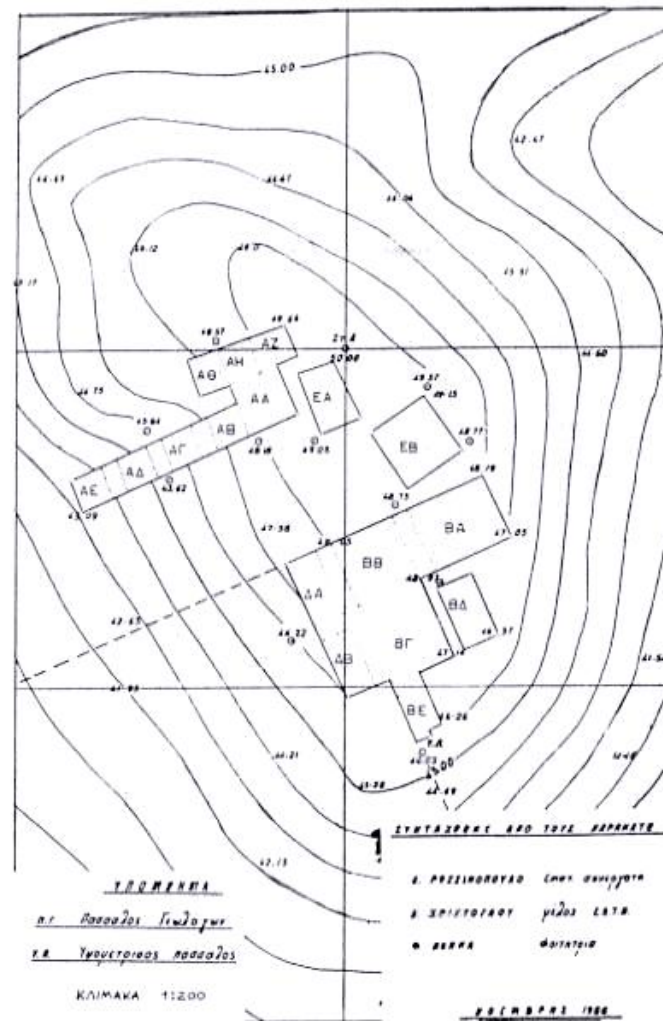




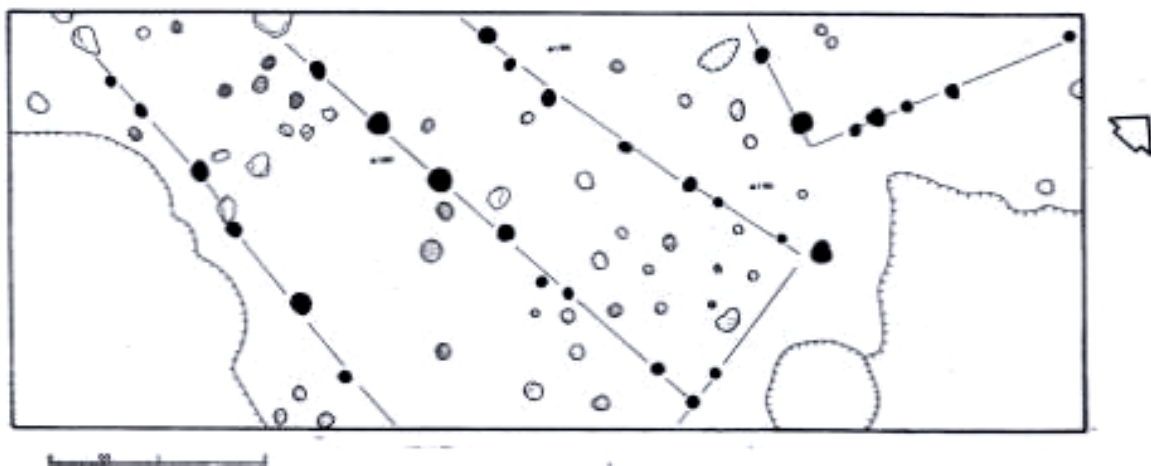
**Figure 7. 13** Makri Alexandroupolis, trenches E1 and E2: plan of the large post-framed building with two adjoining clay structures (Efstratiou *et al.* 1998, 28). In the present study these features are interpreted as thermal structures.



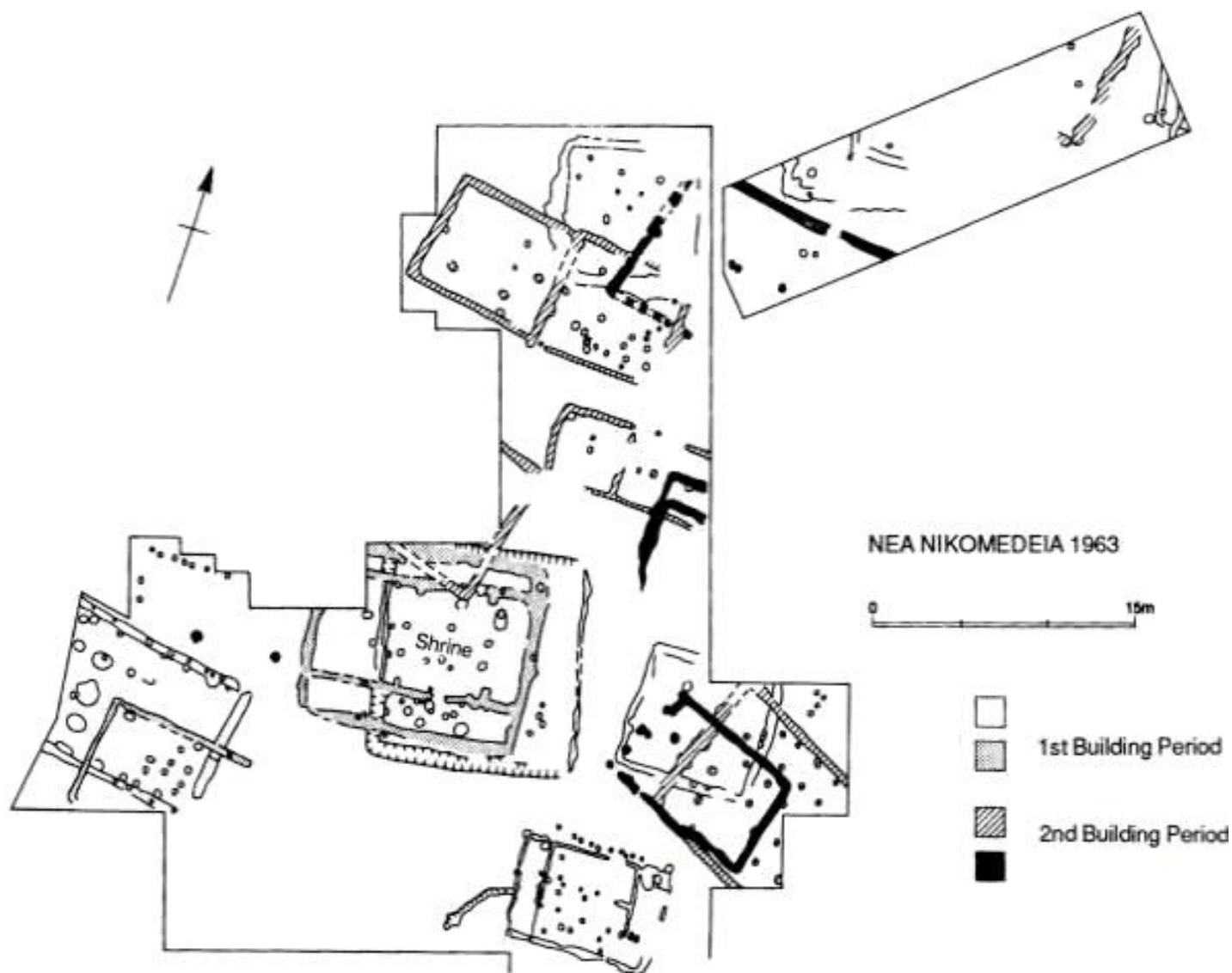
**Figure 7. 14** Mandalo Pellas: site plan of the excavation (Pilali-Papasteriou and Papaeuthimiou-Papanthimou and 1989, 362).



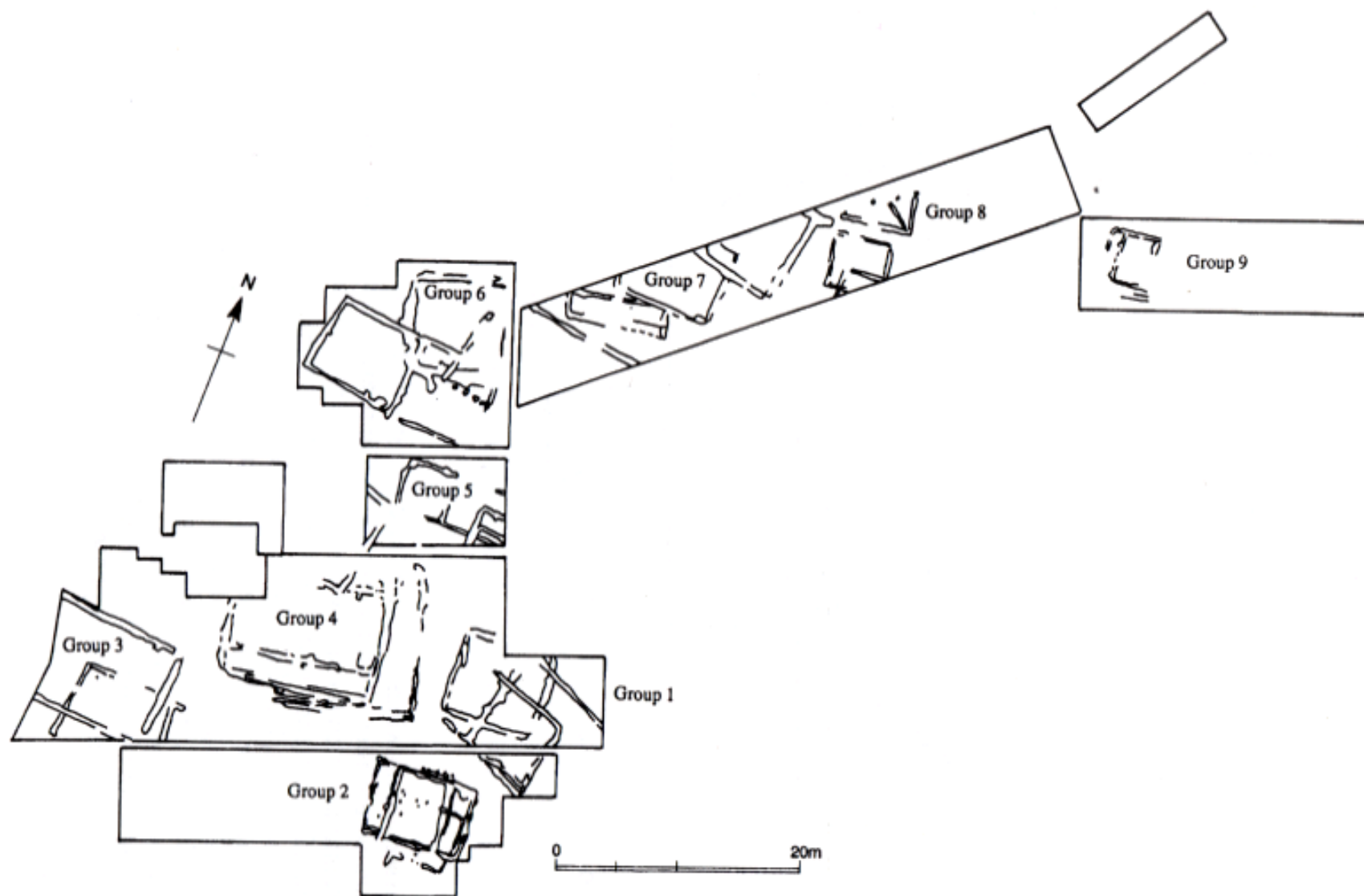
**Figure 7. 15** Mandalo Pellas: plan of trenches BA and BB suggesting building (Kotsakis 1987 124).



**Figure 7. 16** Nea Nikomedeia Imathias: preliminary plan of the 1963 excavations of the EN Building levels (Rodden and Wardle 1996, 10).

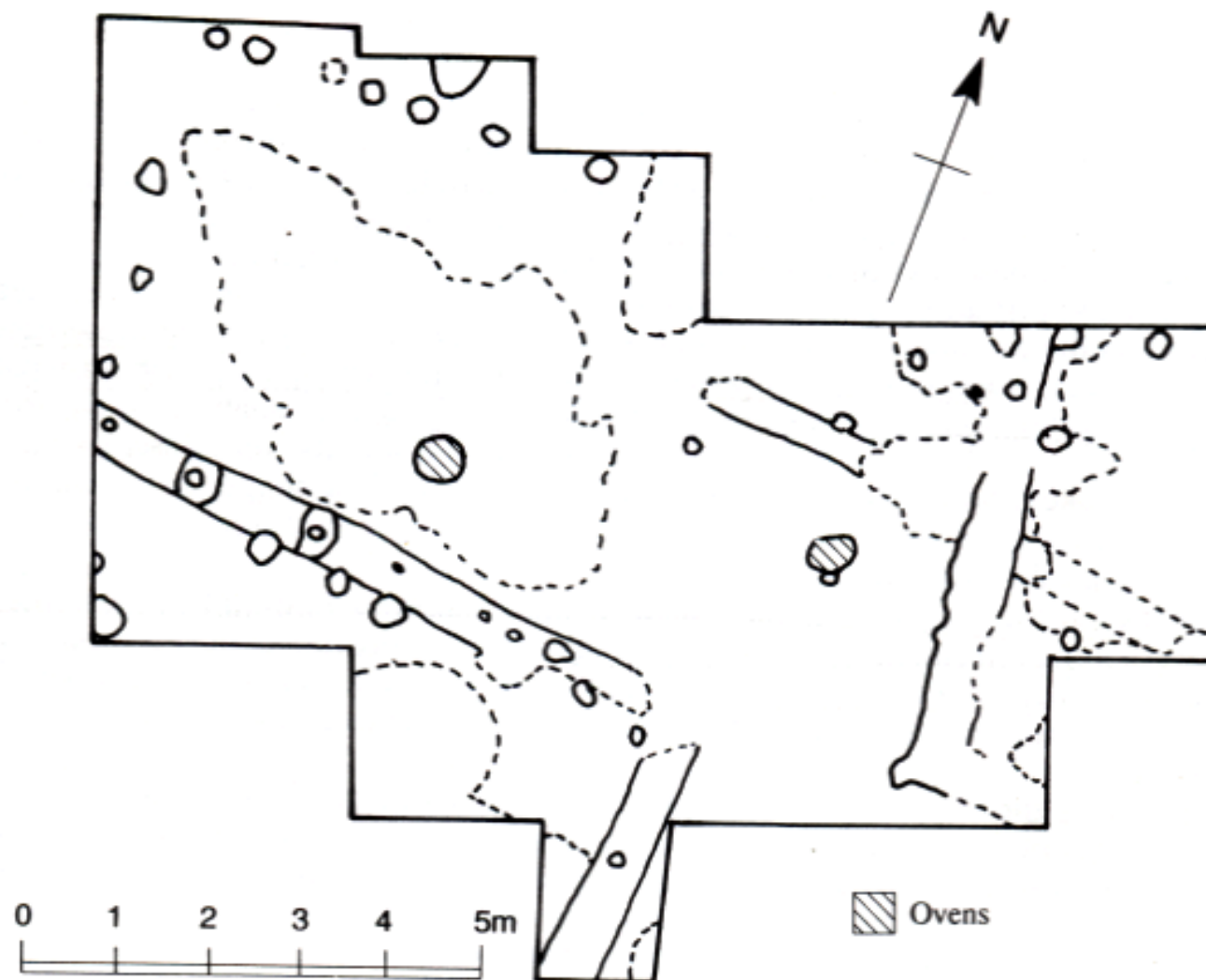


**Figure 7. 17** Nea Nikomedeia Imathias: plan showing the EN structural groups (Rodden and Wardle 1996, 11).

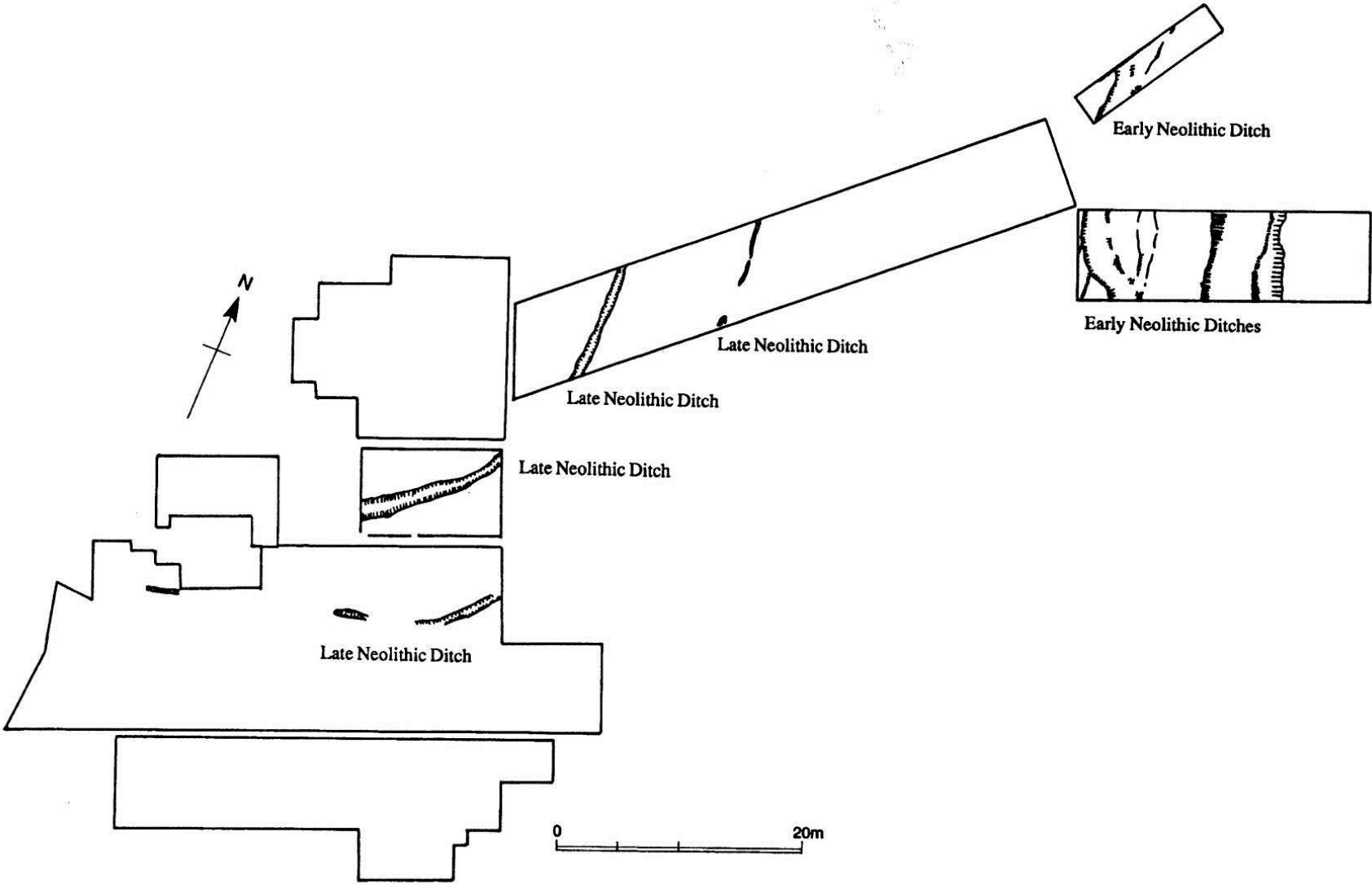




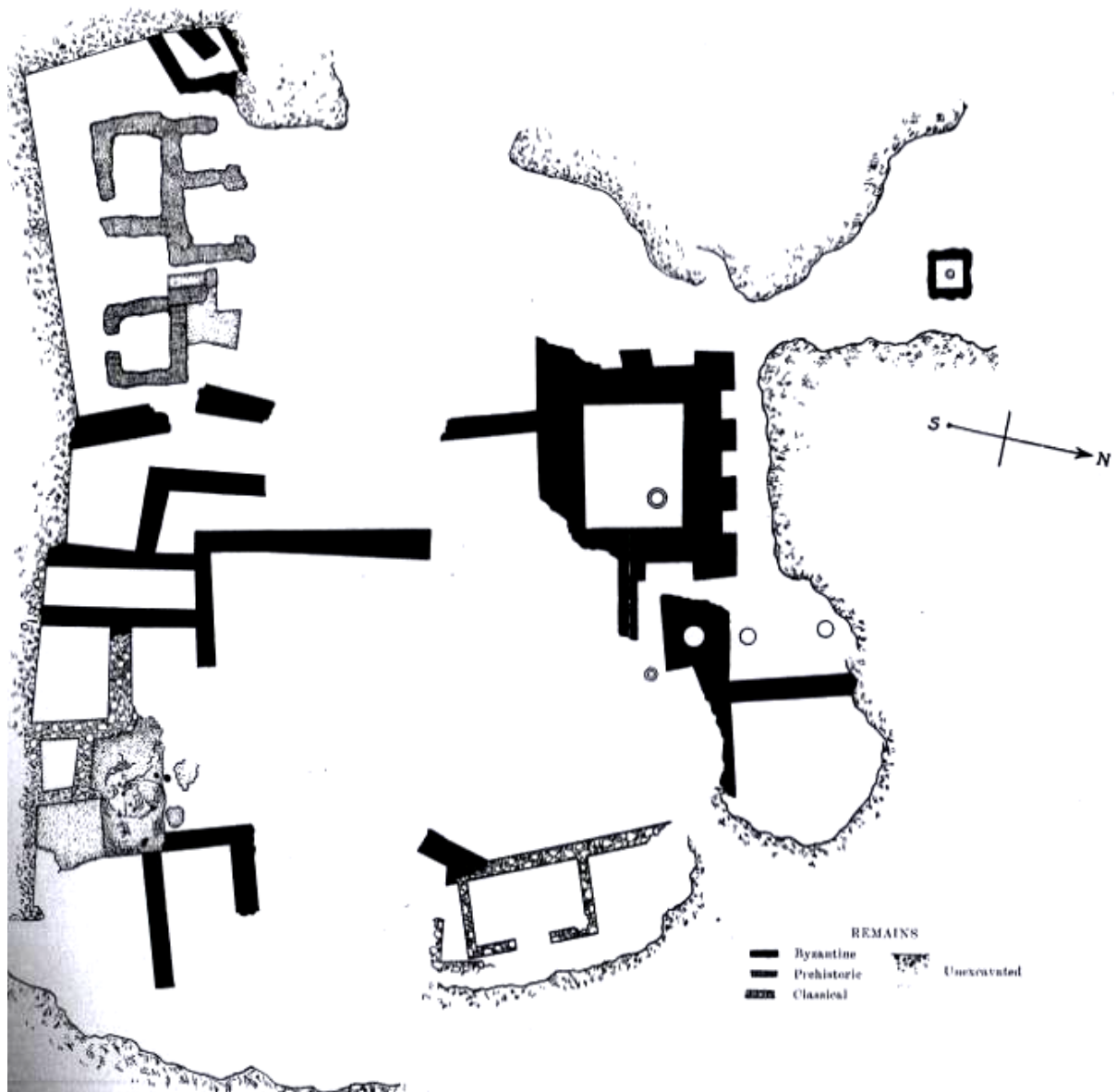
**Figure 7. 18** Nea Nikomedeia Imathias: plan of the 1961 excavation showing an example of two ovens located in the open-air space among buildings (Rodden and Wardle 1996, 12).



**Figure 7. 19** Nea Nikomedeia Imathias: plan of the LN ditches (Rodden and Wardle 1996, 53).



**Figure 7. 20** Olynthos Halkidiki: general plan of the southern projection of the Megali Toumba. The Neolithic architectural remains are shaded in grey (Mylonas 1929, 15).



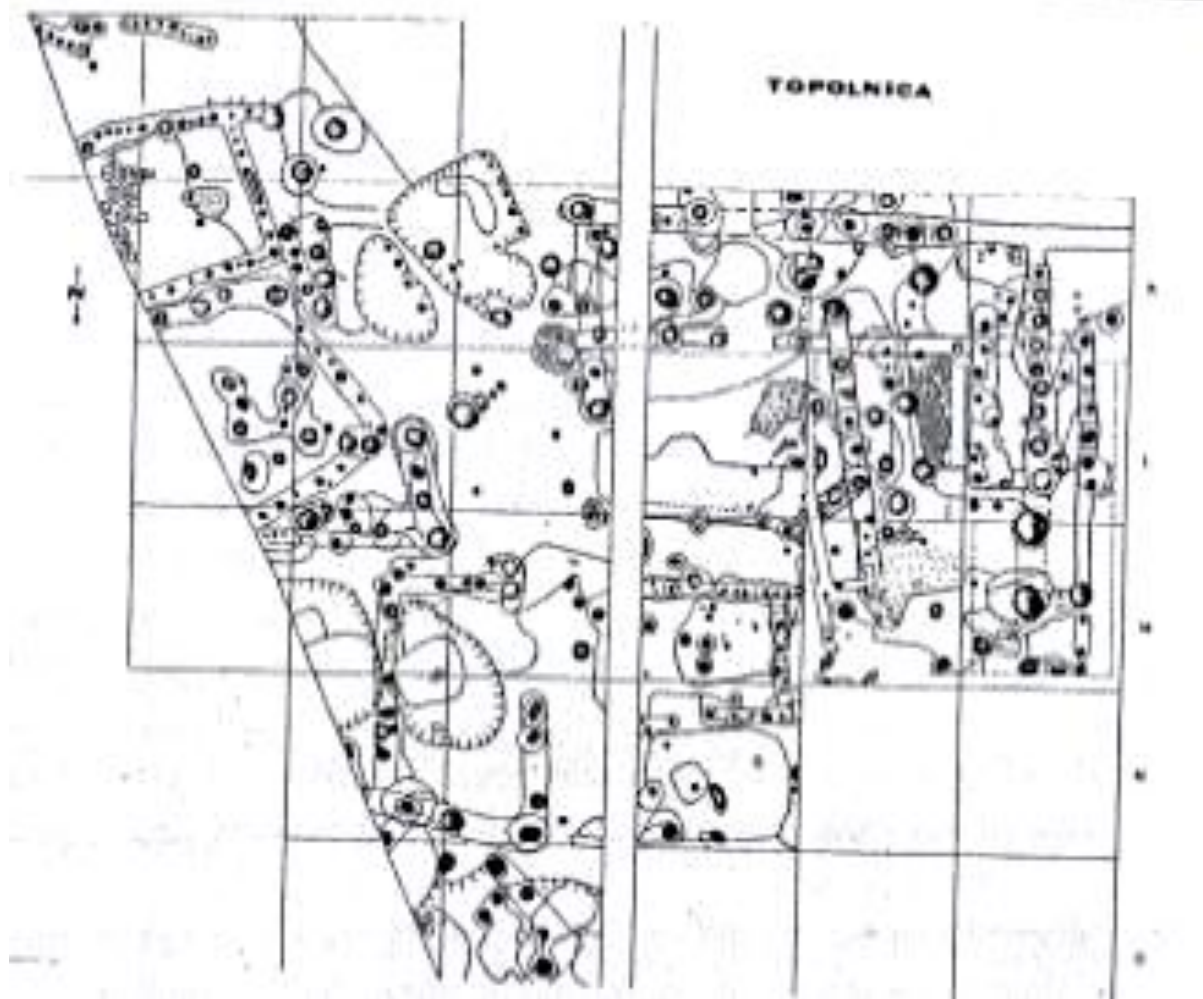
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**(B)**

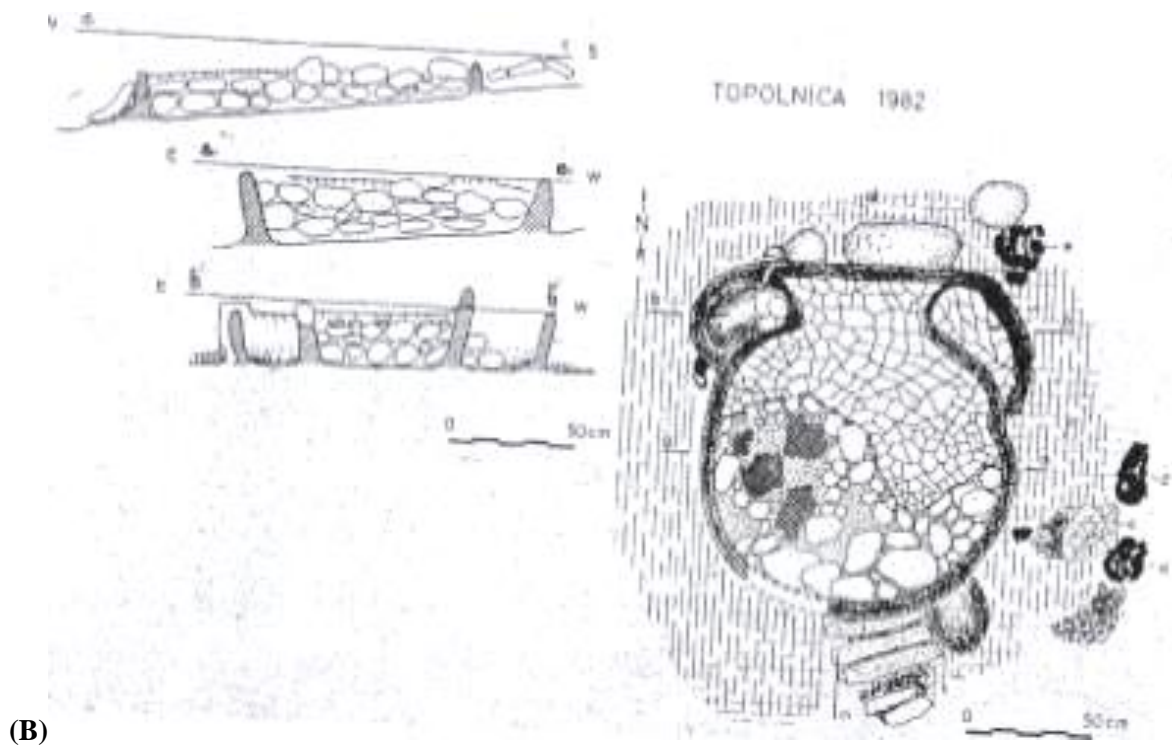
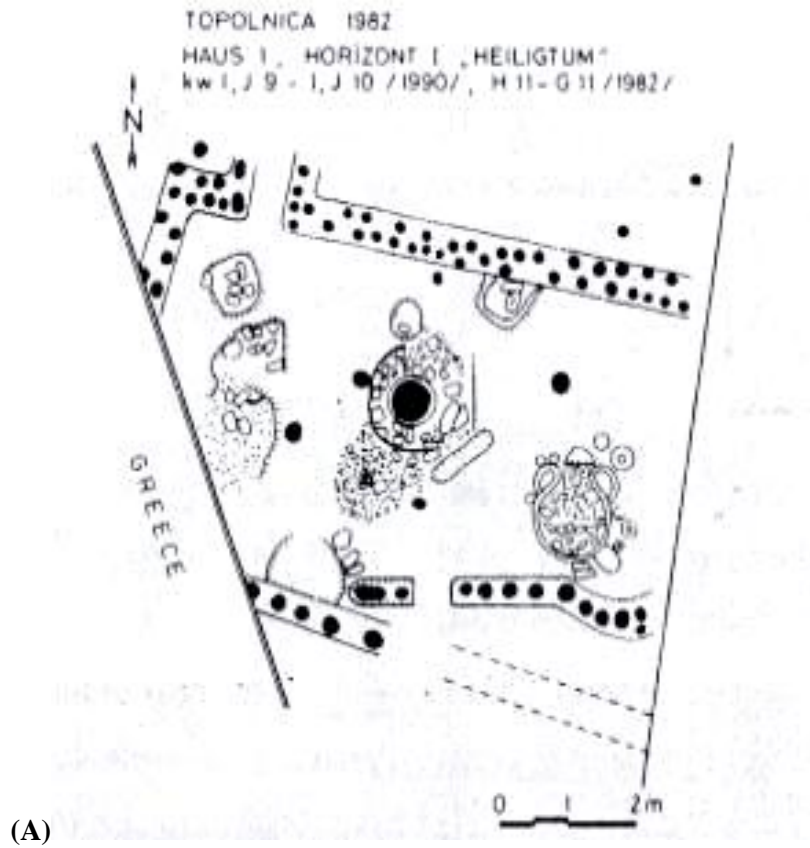




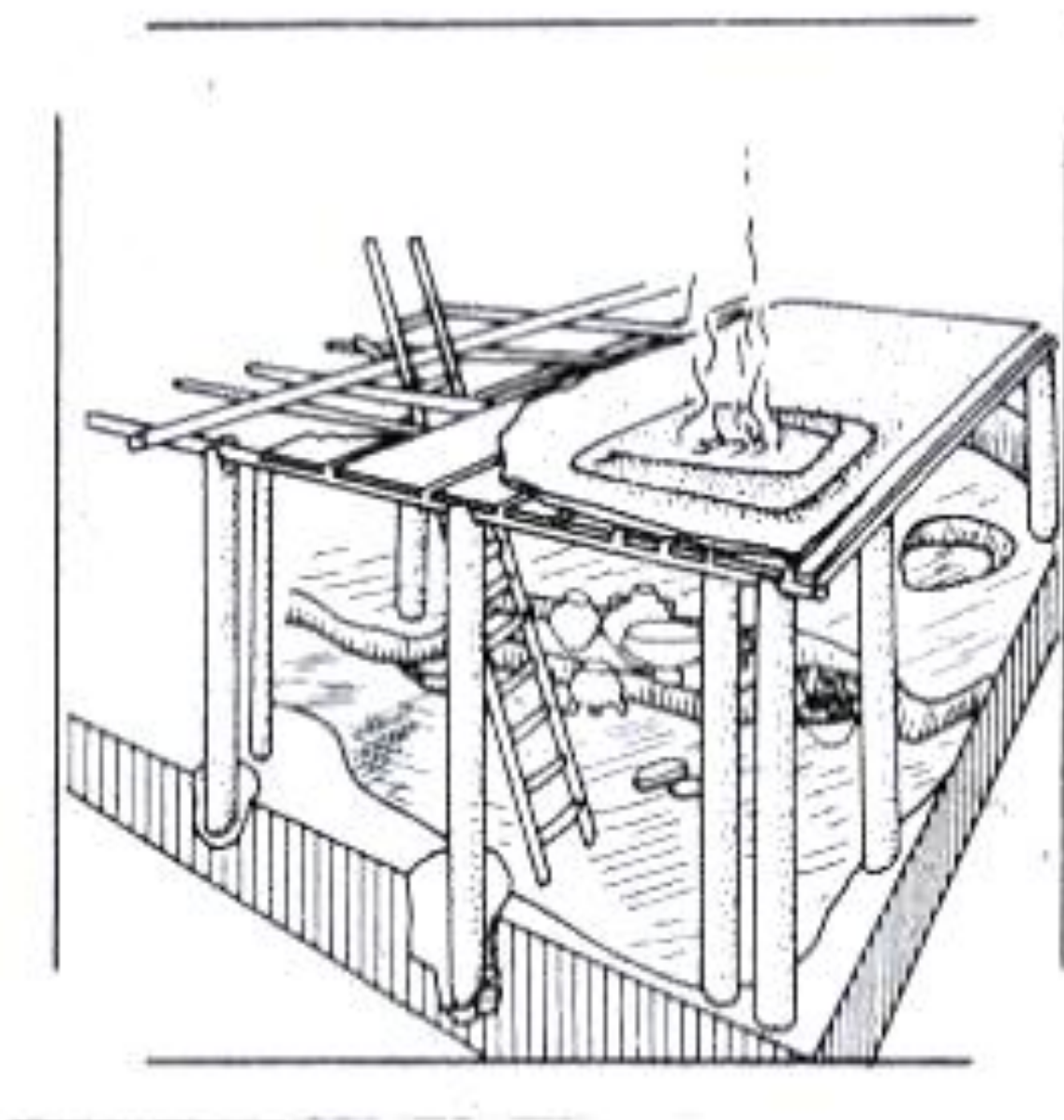
**Figure 7. 22** Promachonas-Topolnica Serres: Phase II, the Bulgarian Sector. The plan illustrates post-framed buildings with subterranean spaces (Koukouli-Chrysanthaki 1996, 751).



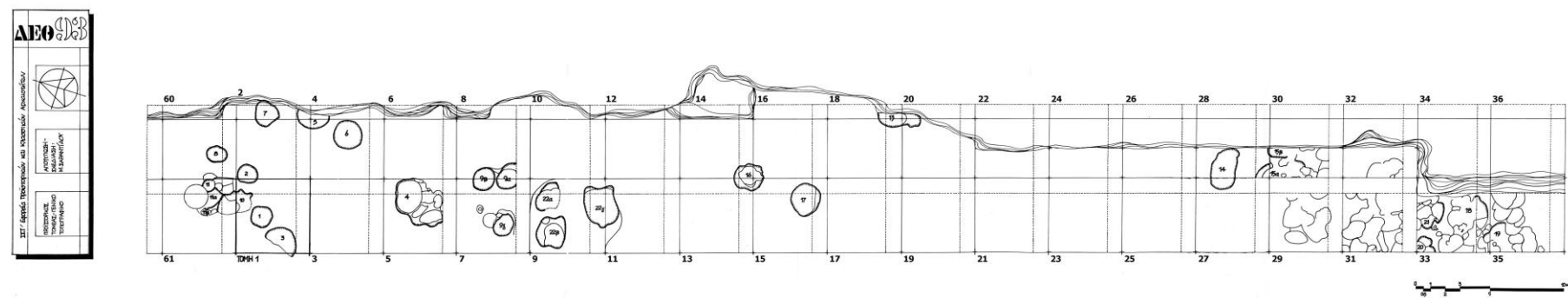
**Figure 7. 23** Promachonas-Topolnica Serres, Phase II, Bulgarian Sector: (A) plan of post-framed building with one thermal structure in its south-eastern inner space (Koukouli-Chrysanthaki 1996, 749). (B) Detail of the thermal structure: plan and sector (Koukouli-Chrysanthaki 1996, 750).



**Figure 7. 24** Promachonas-Topolnica Serres, Phase III, Bulgarian Sector: reconstruction of a house with an open hearth placed in the upper floor level (Koukouli-Chrysanthaki 1996, 752).



**Figure 7. 25** International Fair of Thessaloniki: site plan (Pappa 2008, v. 2)

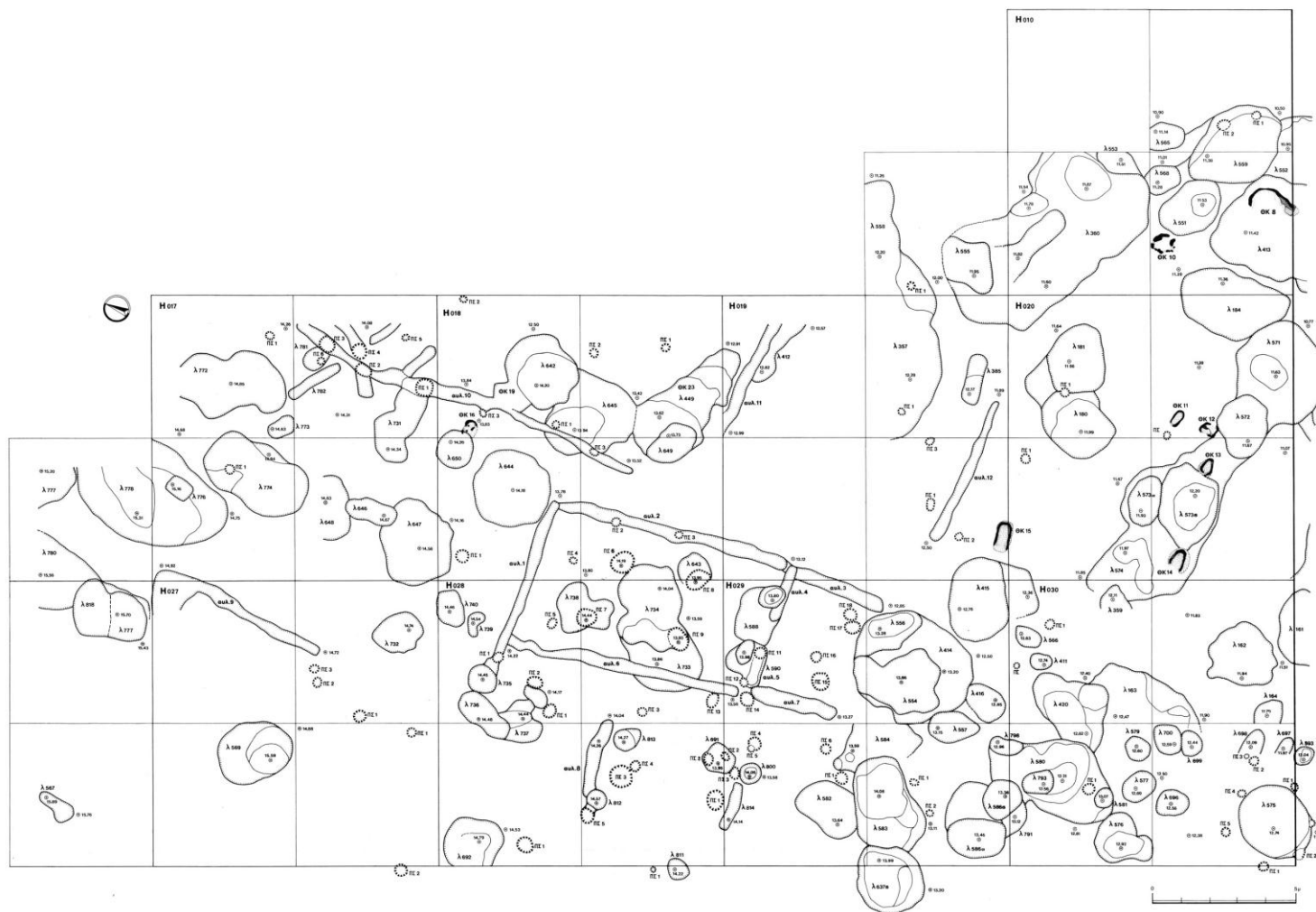




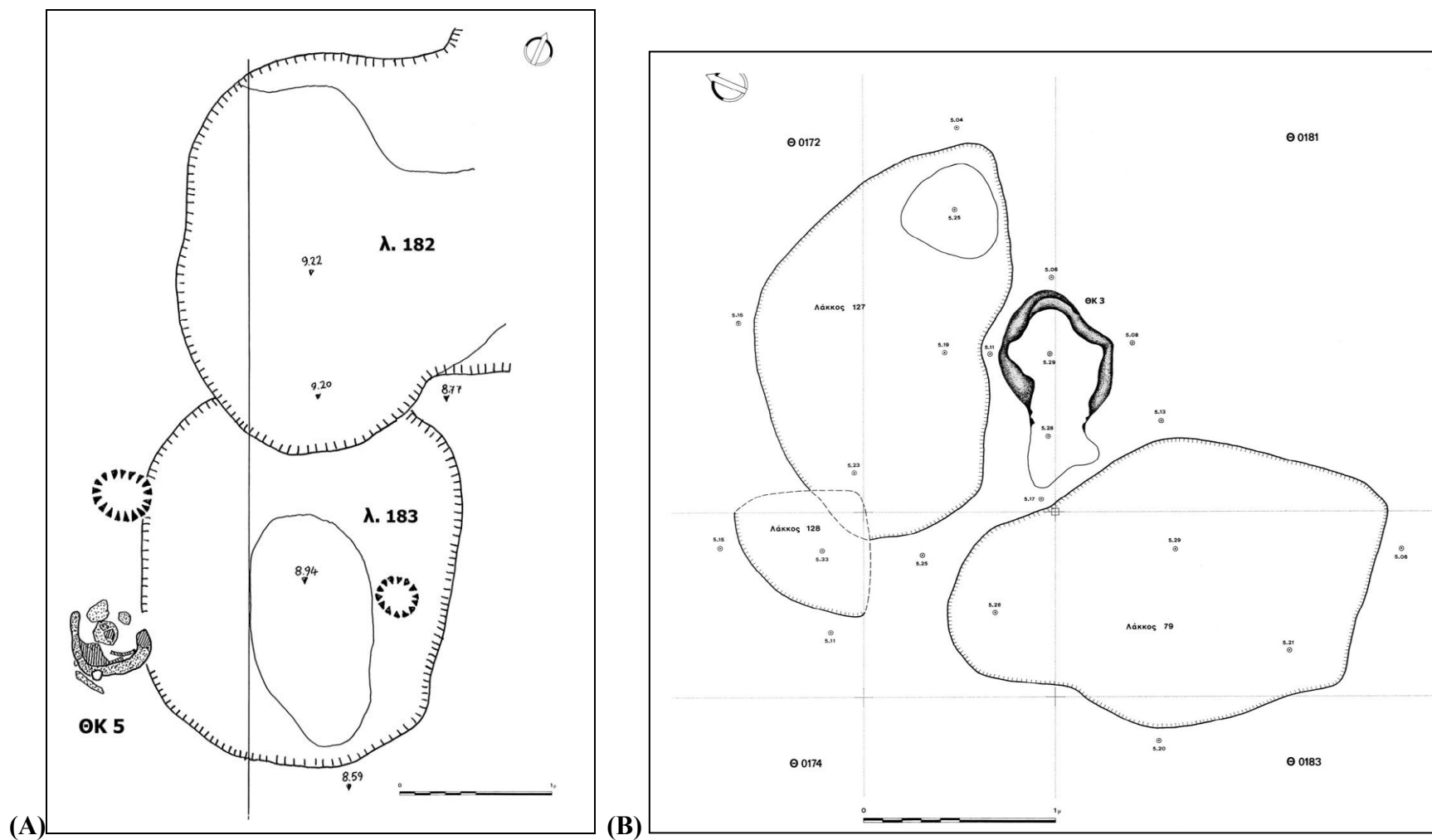




**Figure 7. 28** Makriyalos I in Pieria, trenches H017 to H030: plan showing foundation trenches, pit-dwellings and Thermal Structures in open-air spaces. Thermal Structures are marked with black filling (Pappa 2008, v. 2).

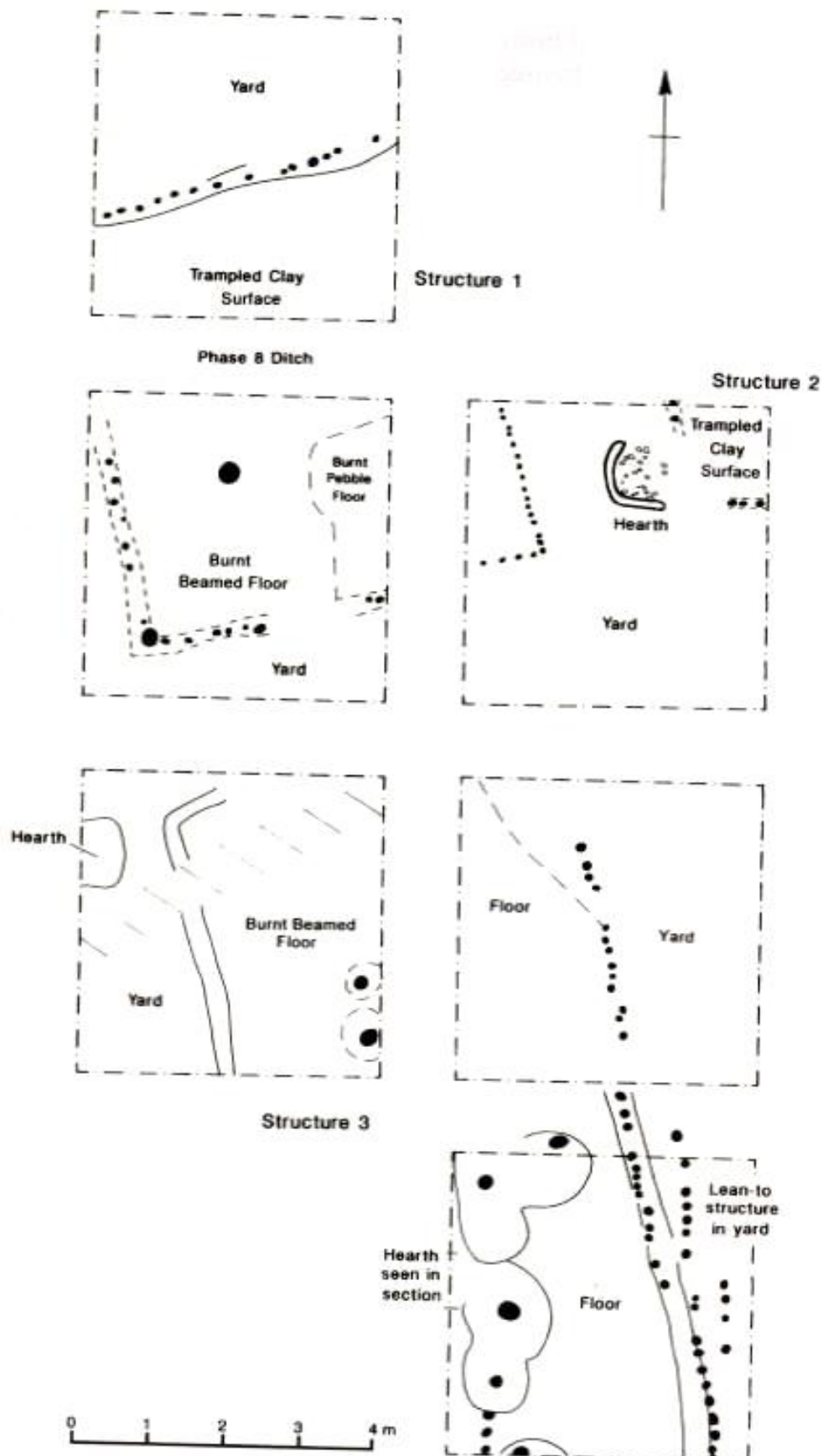


**Figure 7. 29** Makriyalos II in Pieria: (A) trench Θ013, Pit 183 (pit-dwelling), Thermal Structure 5 (oven) positioned in direct association to the building. The oven's front-loaded entrance is directed towards the pit-dwelling. (B) Trench Θ018, Pit Thermal Structure 3 situated among two pits (Pappa 2008, v. 2).

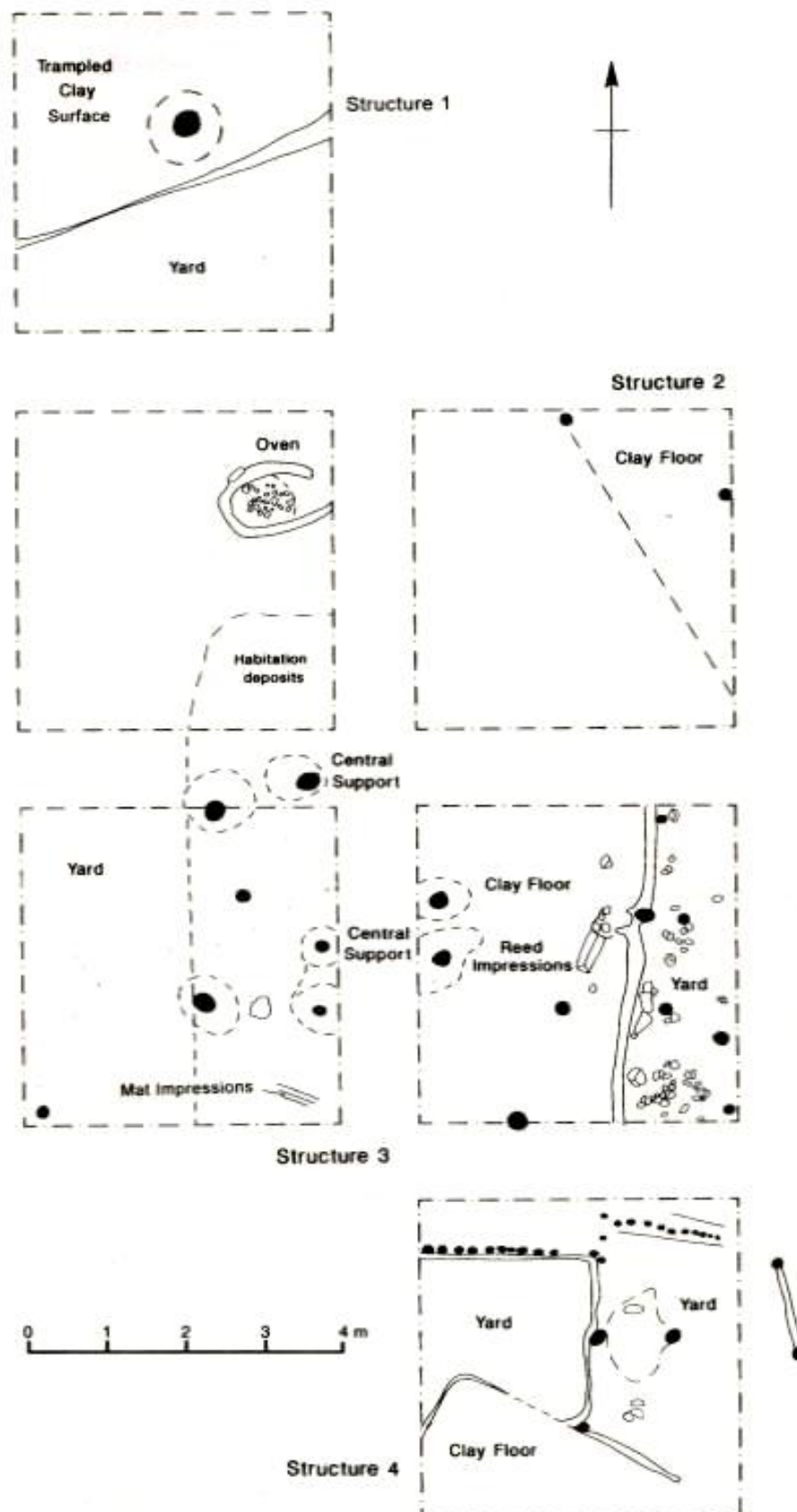




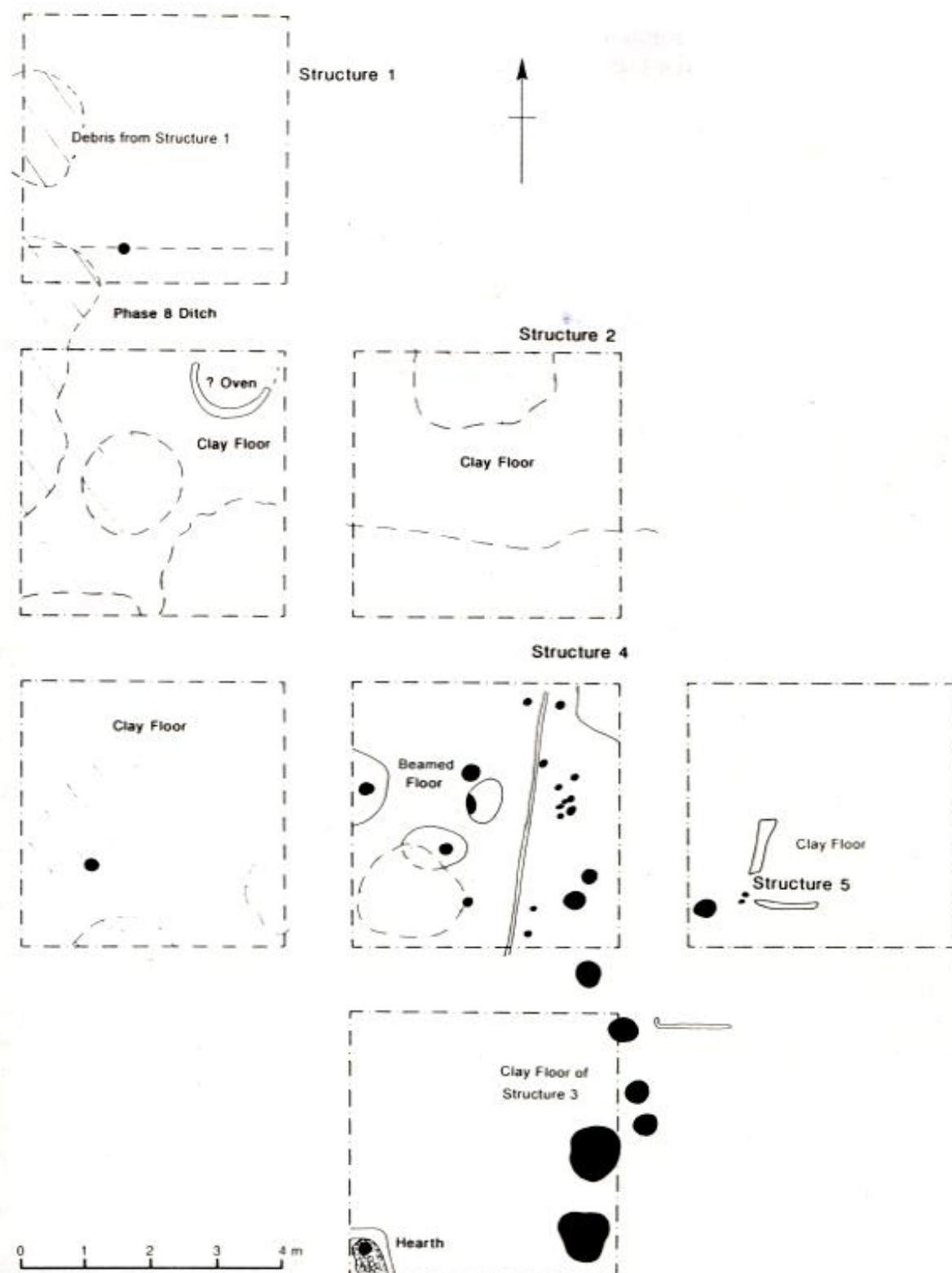
**Figure 7. 30** Serbia Kozanis: MN period, Phase 1, Area F, Structures 1, 2 and 3. Plan with hearths positioned in open-air spaces close to buildings (Ridley *et al.* 2000, 24).



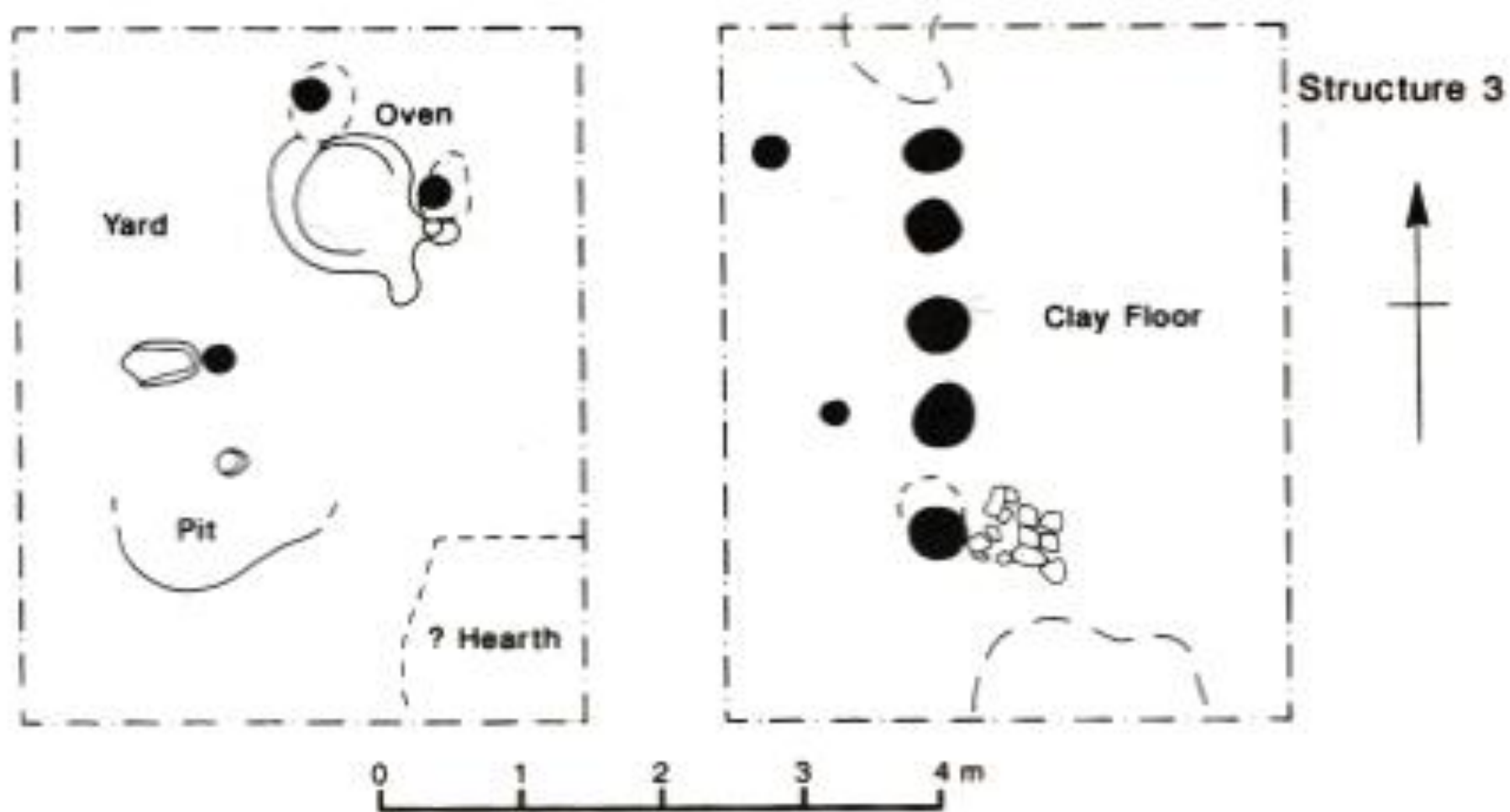
**Figure 7. 31** Serbia Kozanis: MN period, Phase 3, Area F, Structures 1, 2, 3 and 4. Plan howss an oven placed in open-air spaces in close distance from building Structure 3 (Ridley *et al.* 2000, 31).



**Figure 7. 32** Serbia Kozanis: MN period, Phase 4, Area F, Structures 1, 2, 3 and 4. Plan shows an oven (?) inside Building 2 (Ridley *et al.* 2000, 35).



**Figure 7. 33** Serbia Kozanis: LN period, Phase 7, Area H, Structure 3. Plan shows an oven and a hearth (?) associated with Structure 3. The spatial link with Structure 3 is unclear (Ridley *et al.* 2000, 51).

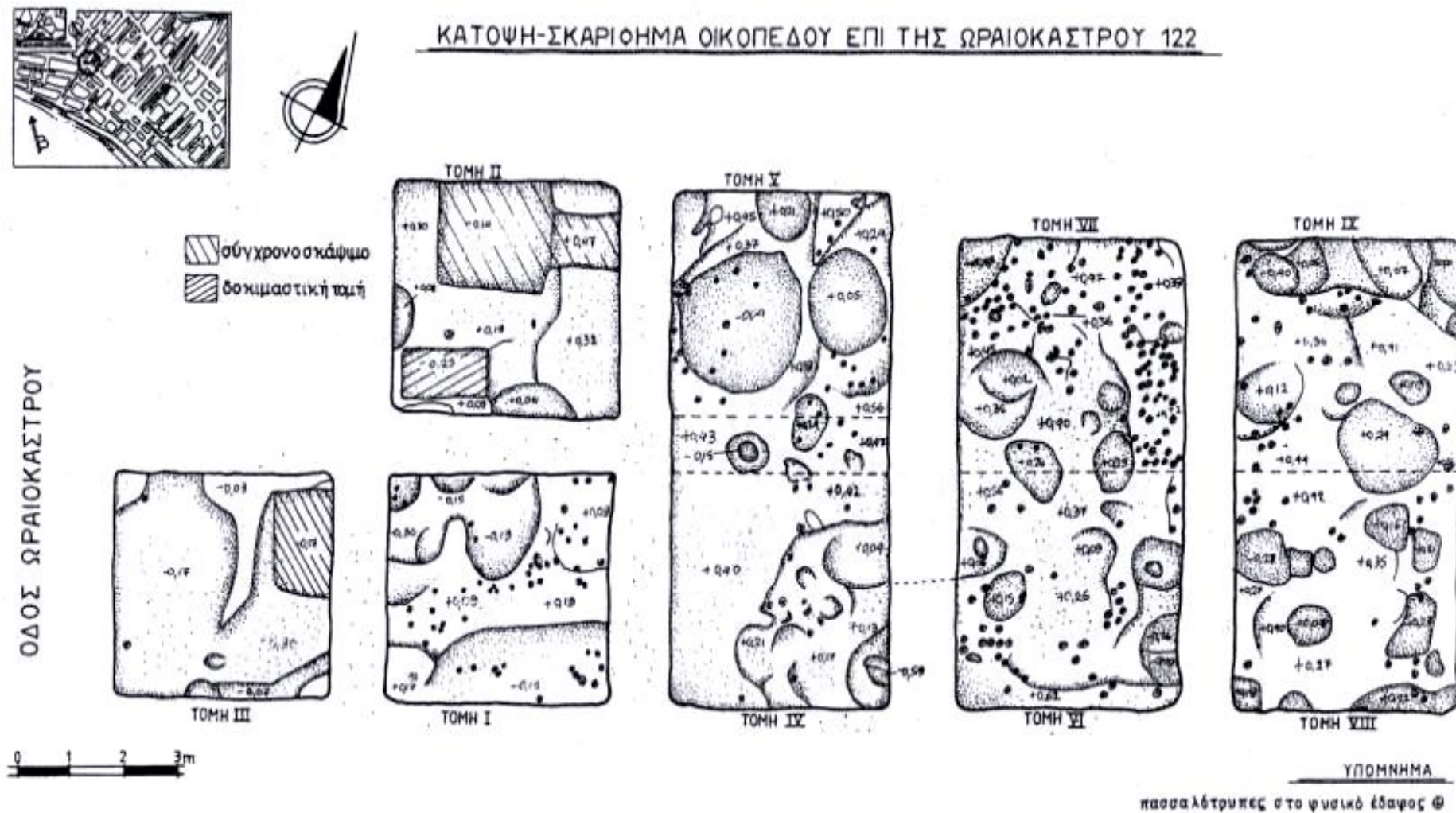




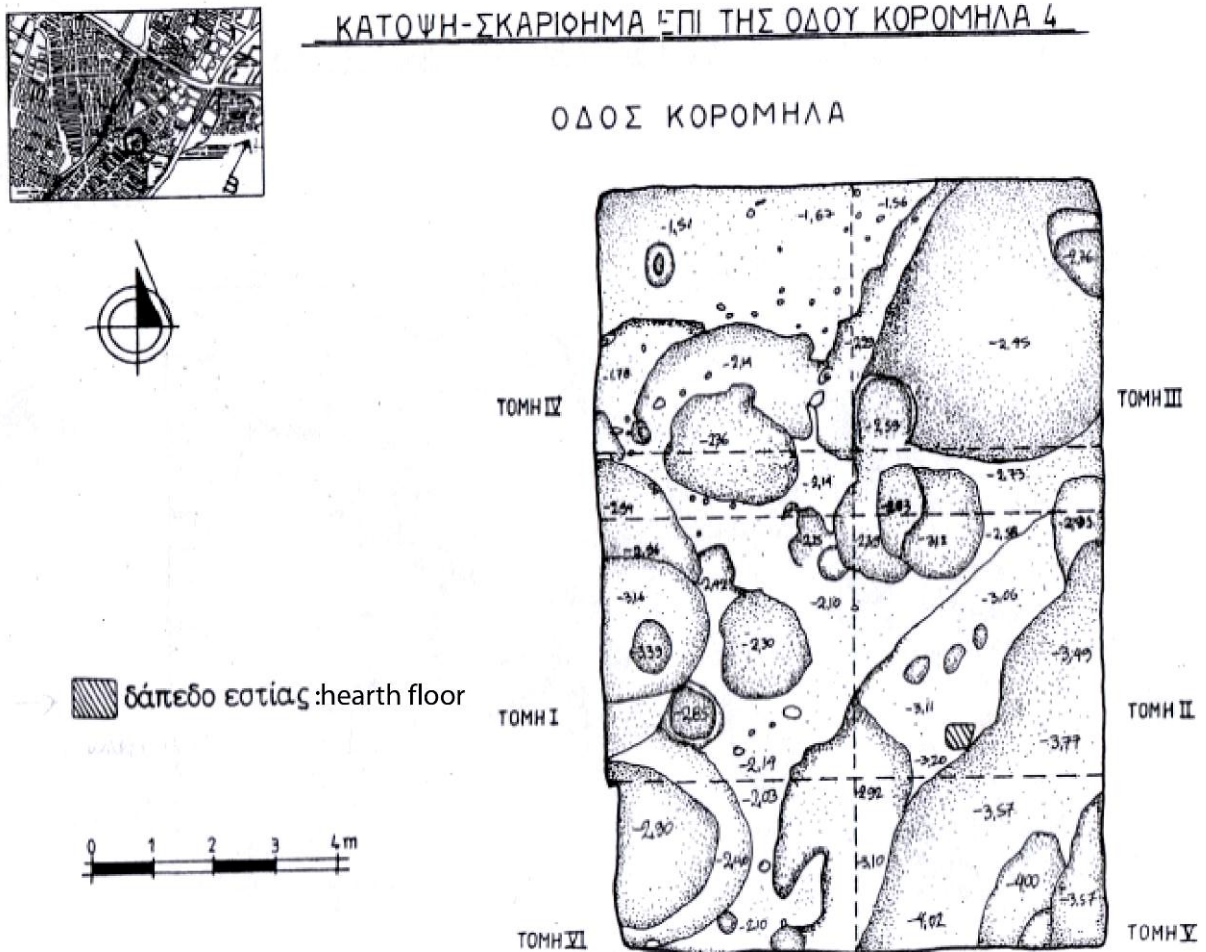
**Figure 7. 34** Stavroupoli Thessaloniki, Oraiokastrou 98: general site plan shows one oven found in open-air space directly associated with pit-dwelling A2 (Grammenos and Kotsos 2004, 202).



**Figure 7. 35** Stavroupoli Thessaloniki: Oraikastrou 122: general site plan shows an assemblage of pit-dwellings, postholes, pits and Thermal Structures inside buildings and in the open-air spaces (Grammenos and Kotsos 2002, 474).

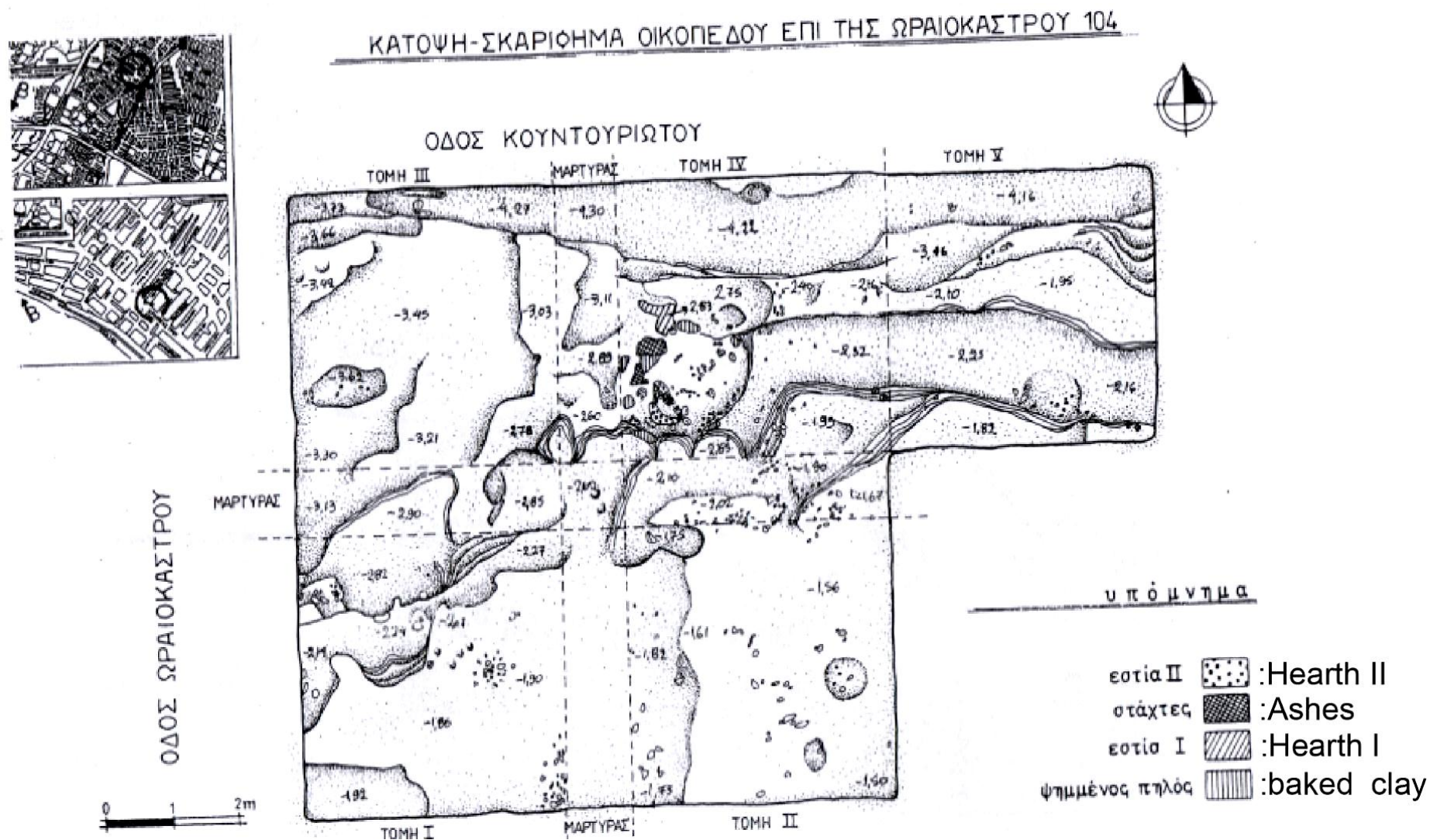


**Figure 7. 36** Stavroupoli Thessaloniki, Koromilas 4: general site shows the remains of a hearth floor in open-air space in close distance from pit-dwellings (Grammenos and Kotsos 2002, 474).



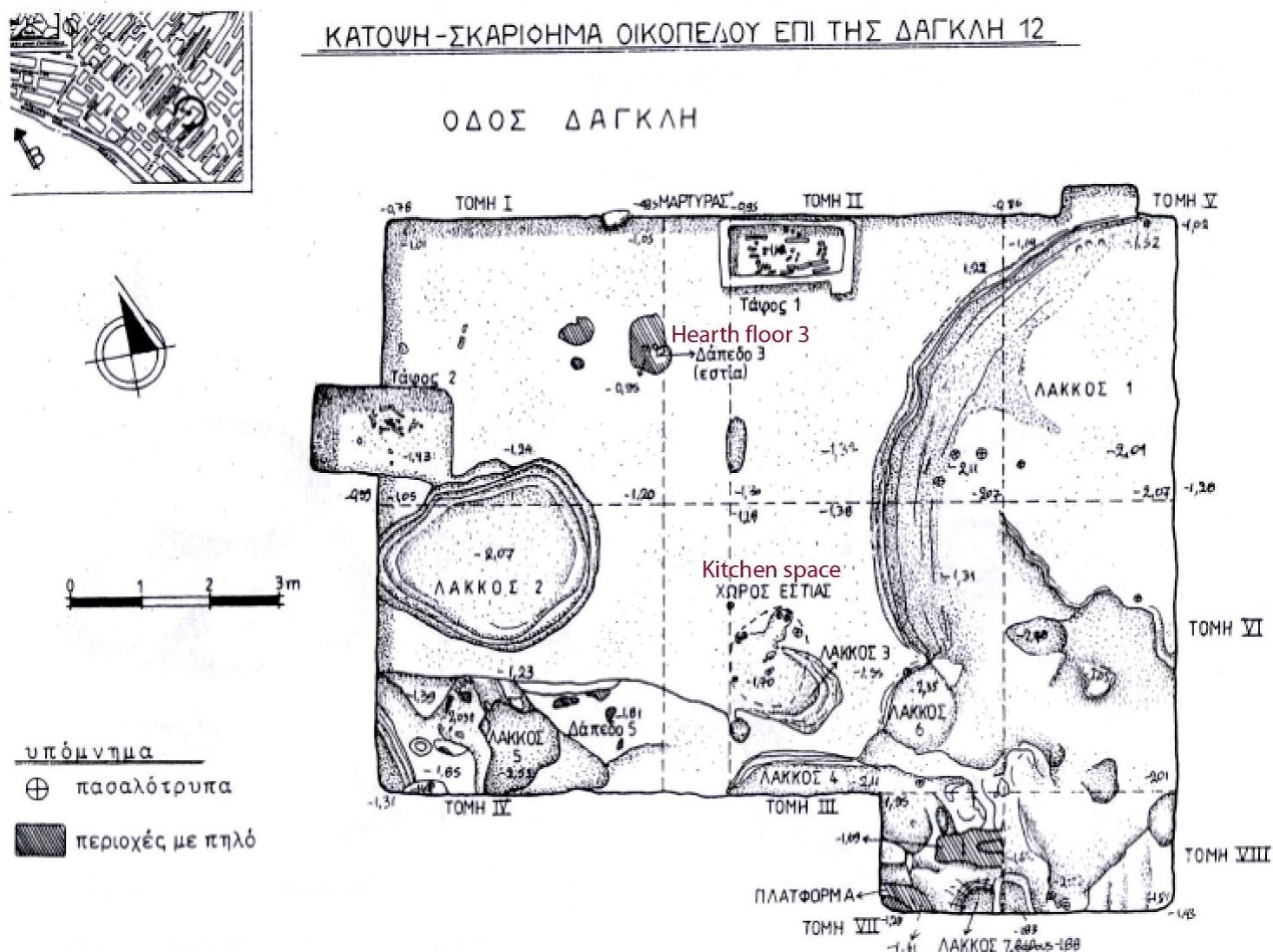


**Figure 7. 37** Stavroupoli Thessaloniki, Oraiokastrou 104: general plan shows a cluster of hearths closely distributed at the open-air space of the settlement. The association with buildings is not clear (Grammenos and Kotsos 2002, 498).

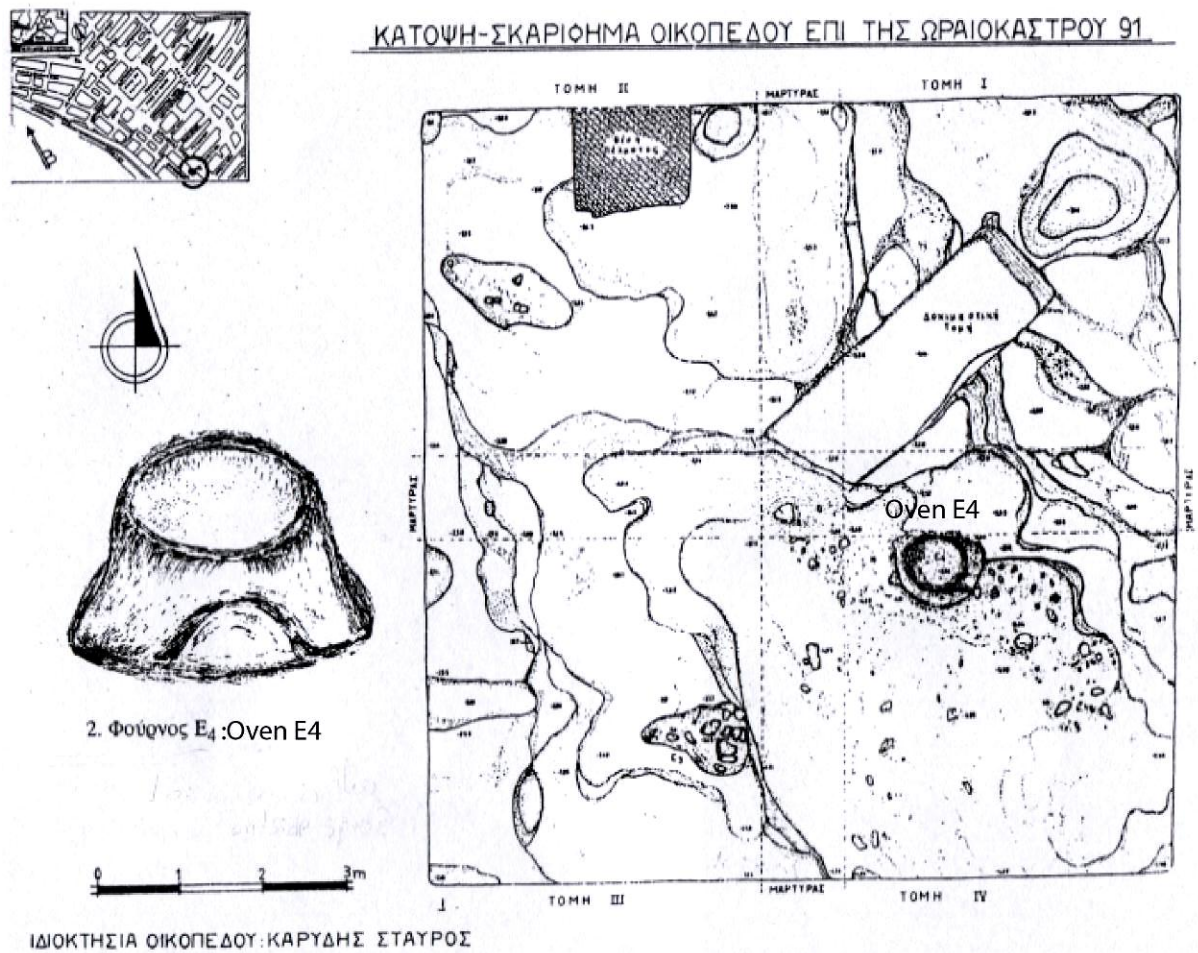




**Figure 7. 38** Stavroupoli Thessaloniki, Dagli 12: site plan shows one hearth floor and a kitchen space found in the open-air space in close distance from Pit 1 and Pit 2 (pit-dwellings?) (Grammenos and Kotsos 2002, 498).



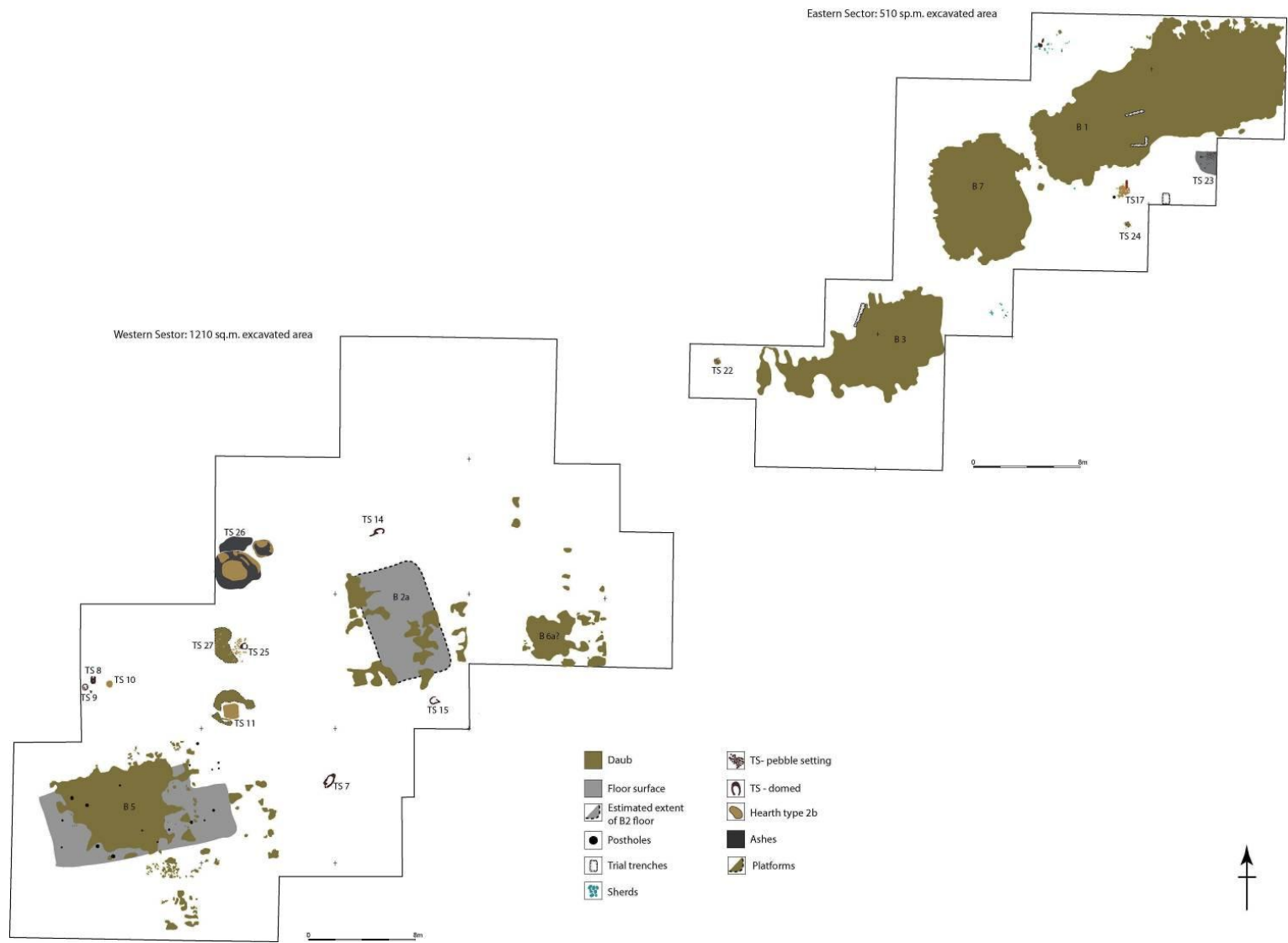
**Figure 7. 39** Stavroupoli Thessalonikis, Oraiokastrou 91: general plan shows one type 1b oven. The spatial reference of the oven is not clear (Grammenos and Kotsos 2002, 503).



**Plan 5. 1** Legend of the symbols used in the plans.

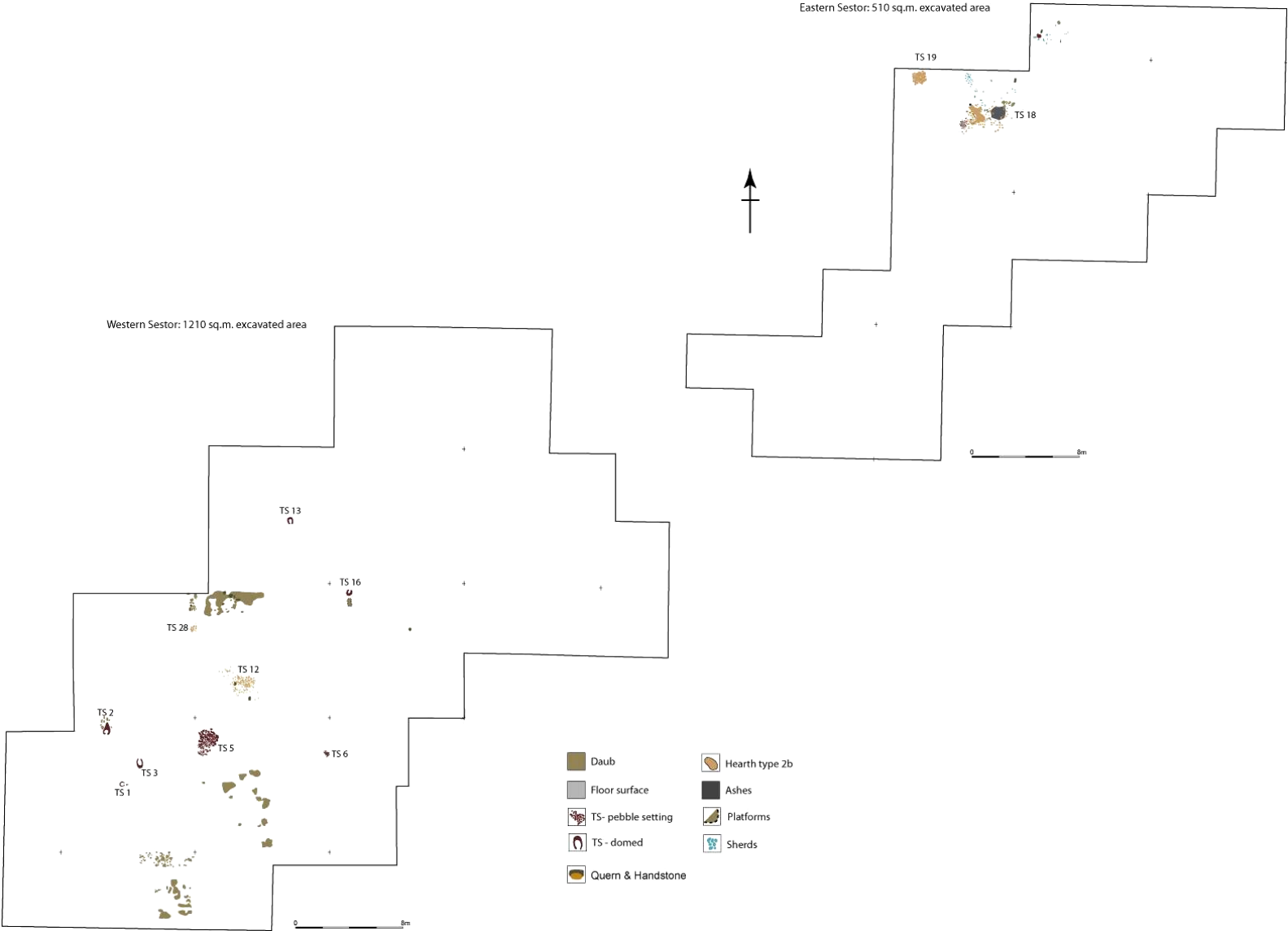
 Hearth type 2b	 querns	 chipped stone tools	 bone tools
 Oven type 1	 grinders	 blades	 awls
 Hearth type 2a	 groundstones	 quartz tools	 miniatures, models, seals
 platform	 groundstone fragments	 projectile points	 figurines
 natural soil	 axes	 flint cores	
 trench edge	 axe fragments		
	 polishers		

**Plan 5. 2** Large-scale plan of the Avgi I habitation phase showing the burned daub building remains and the Thermal Structures unearthed on site (see also Portfolio).





**Plan 5. 3** Large-scale plan of the Avgi II habitation phase showing the Thermal Structures unearthed on site (see also Portfolio).



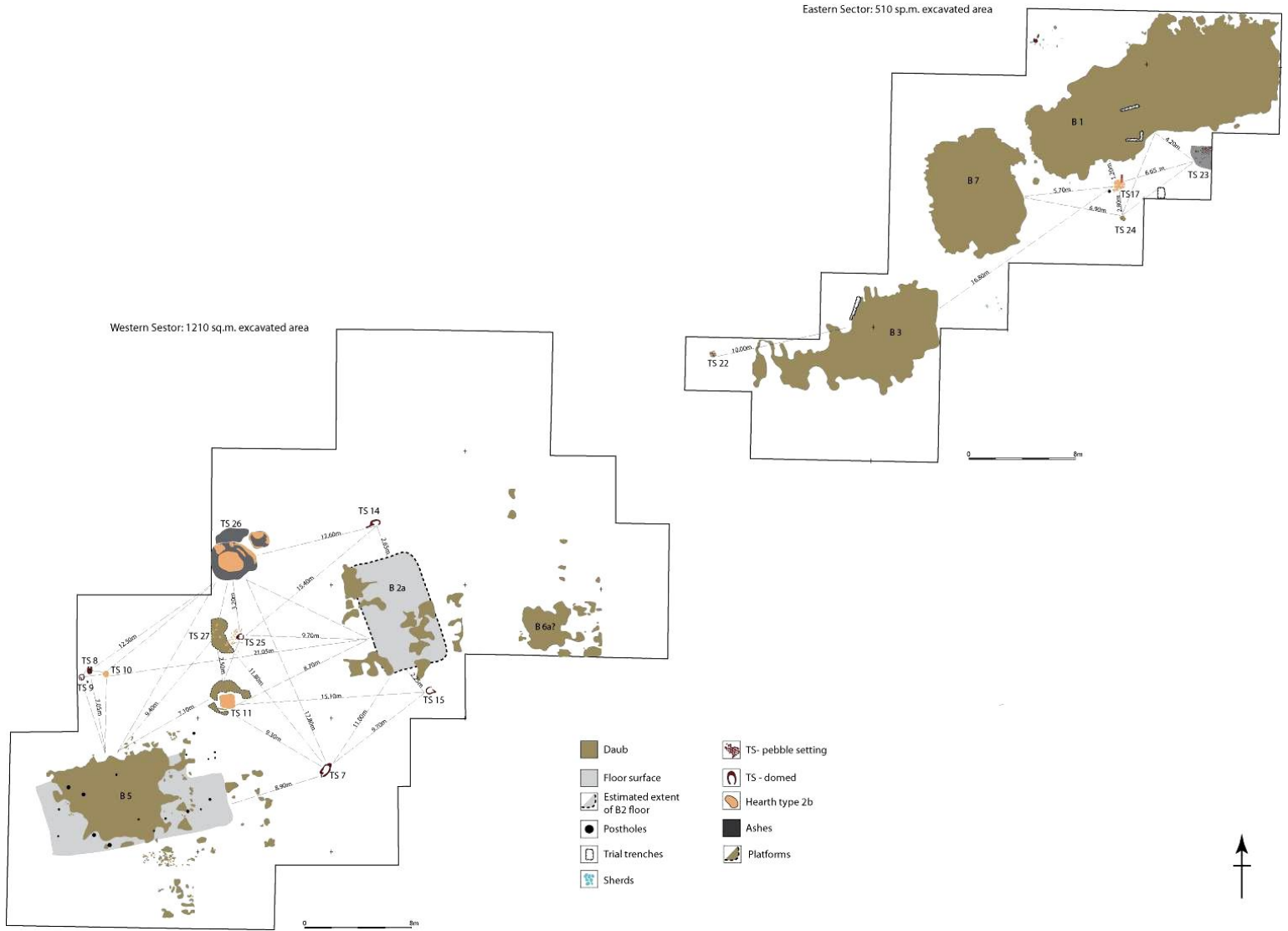
**Plan 5. 4** Large-scale plan of the Avgi III habitation phase showing the foundation trenches and pits unearthed on site (see also Portfolio).



**Plan 5. 5** Large-scale plan of Avgi I habitation phase: the red-dotted boxes mark the areas of small-scale spatial and contextual analysis.

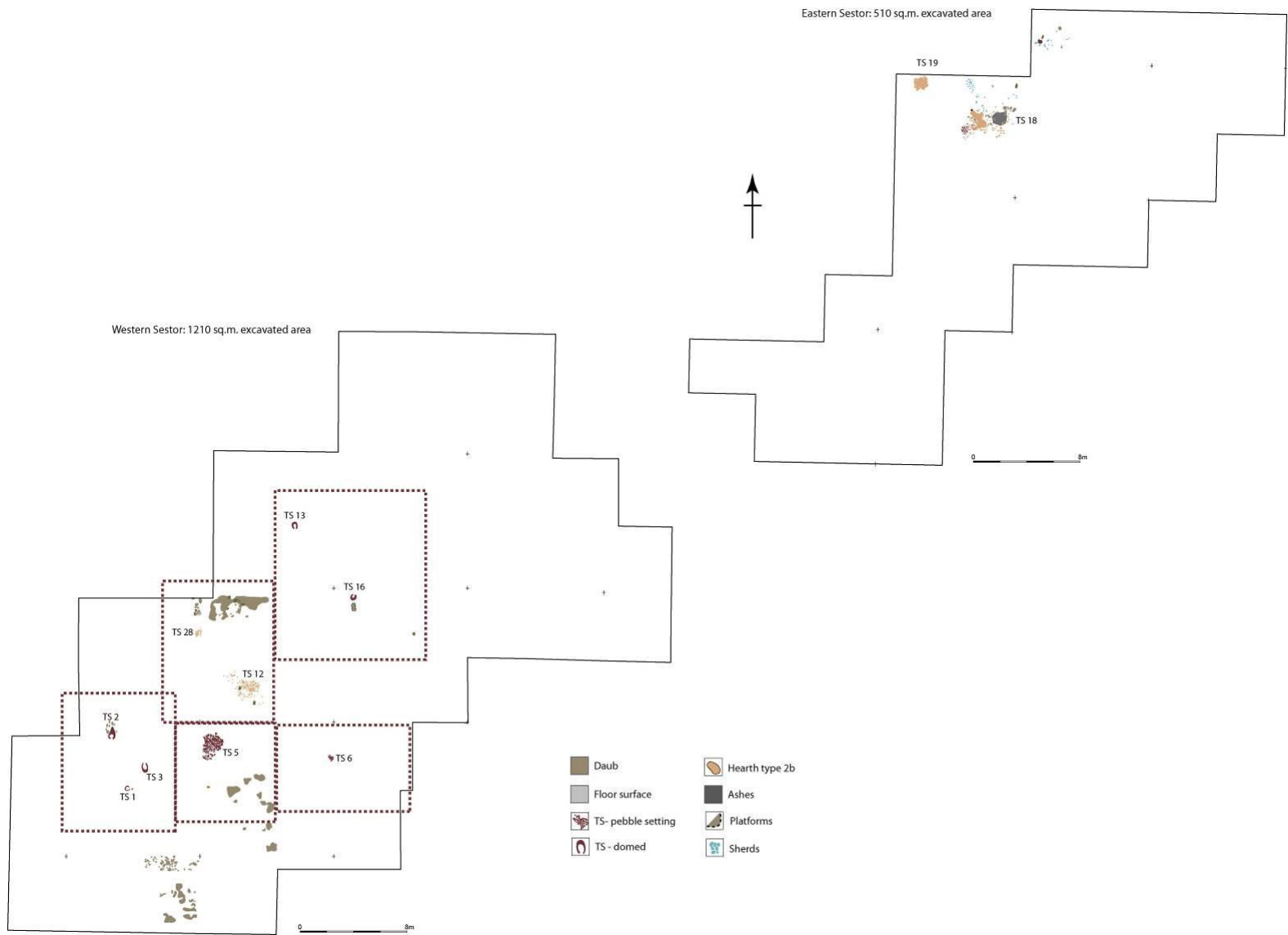


**Plan 5. 6** Large-scale plan that shows the distance among buildings and features at Avgi I and suggests possible movements and paths among them (see also Portfolio).

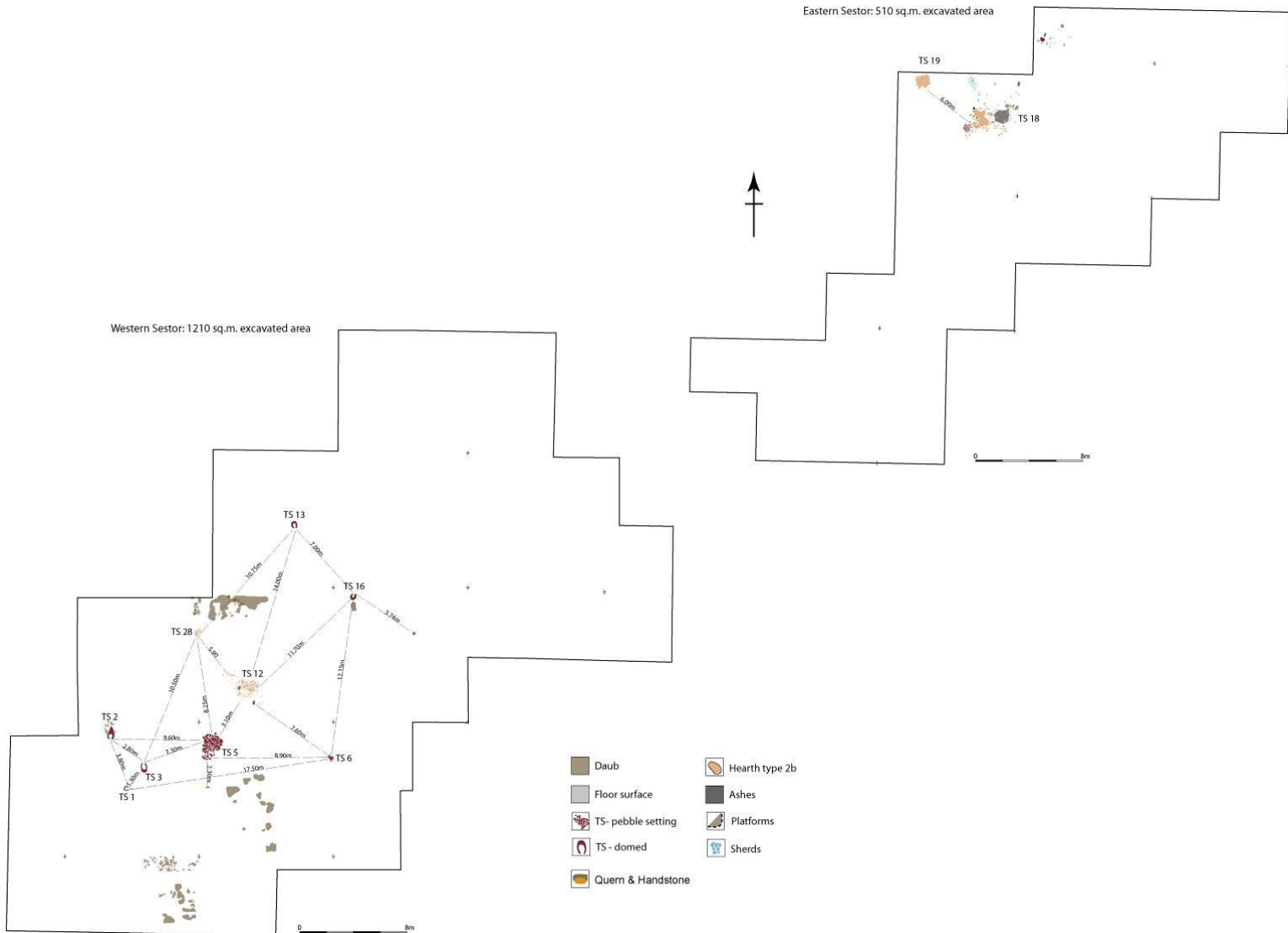




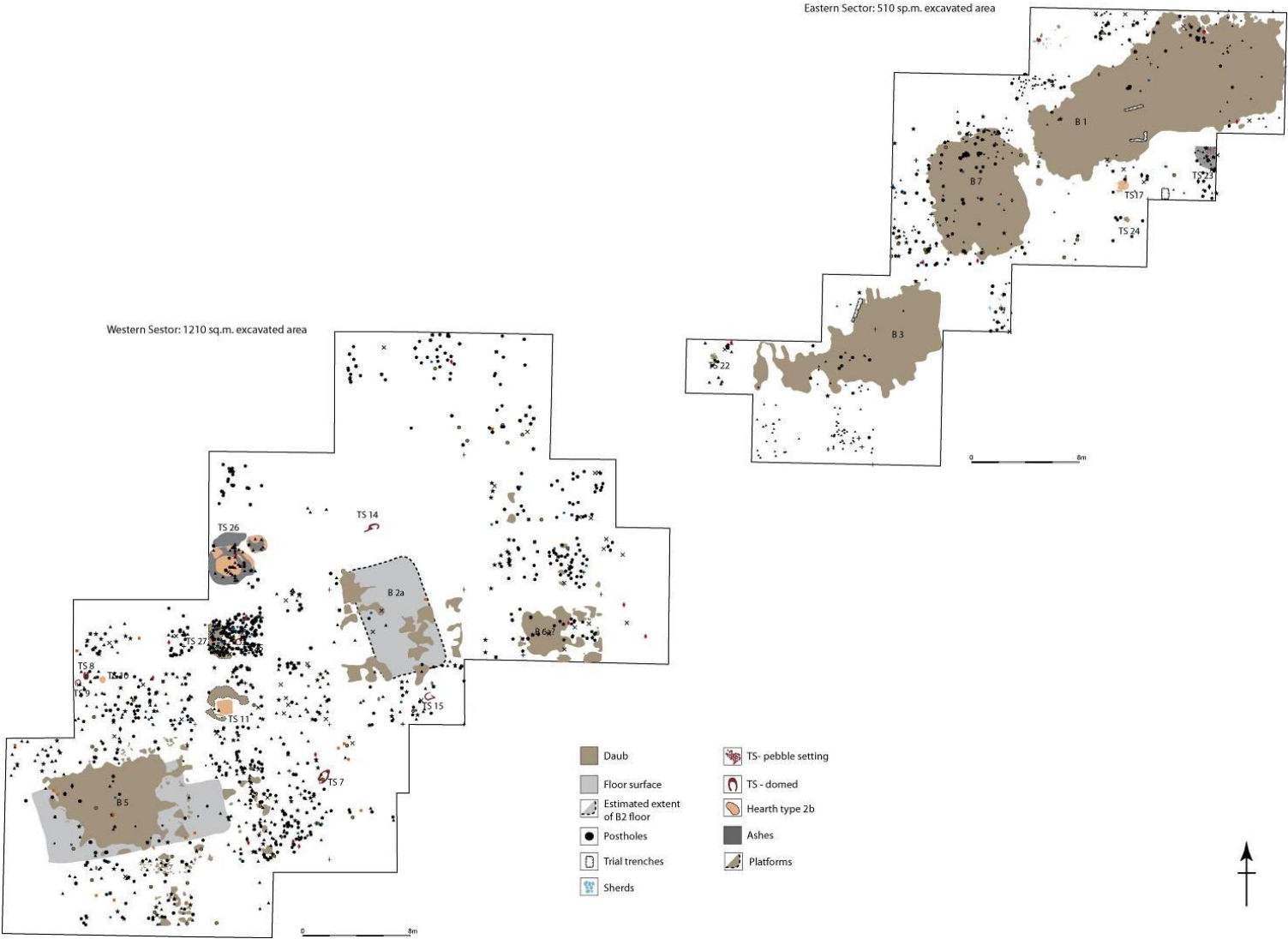
**Plan 5. 7** Large-scale plan of Avgi II habitation phase: the red-dotted boxes mark the areas of small-scale spatial and contextual analysis.



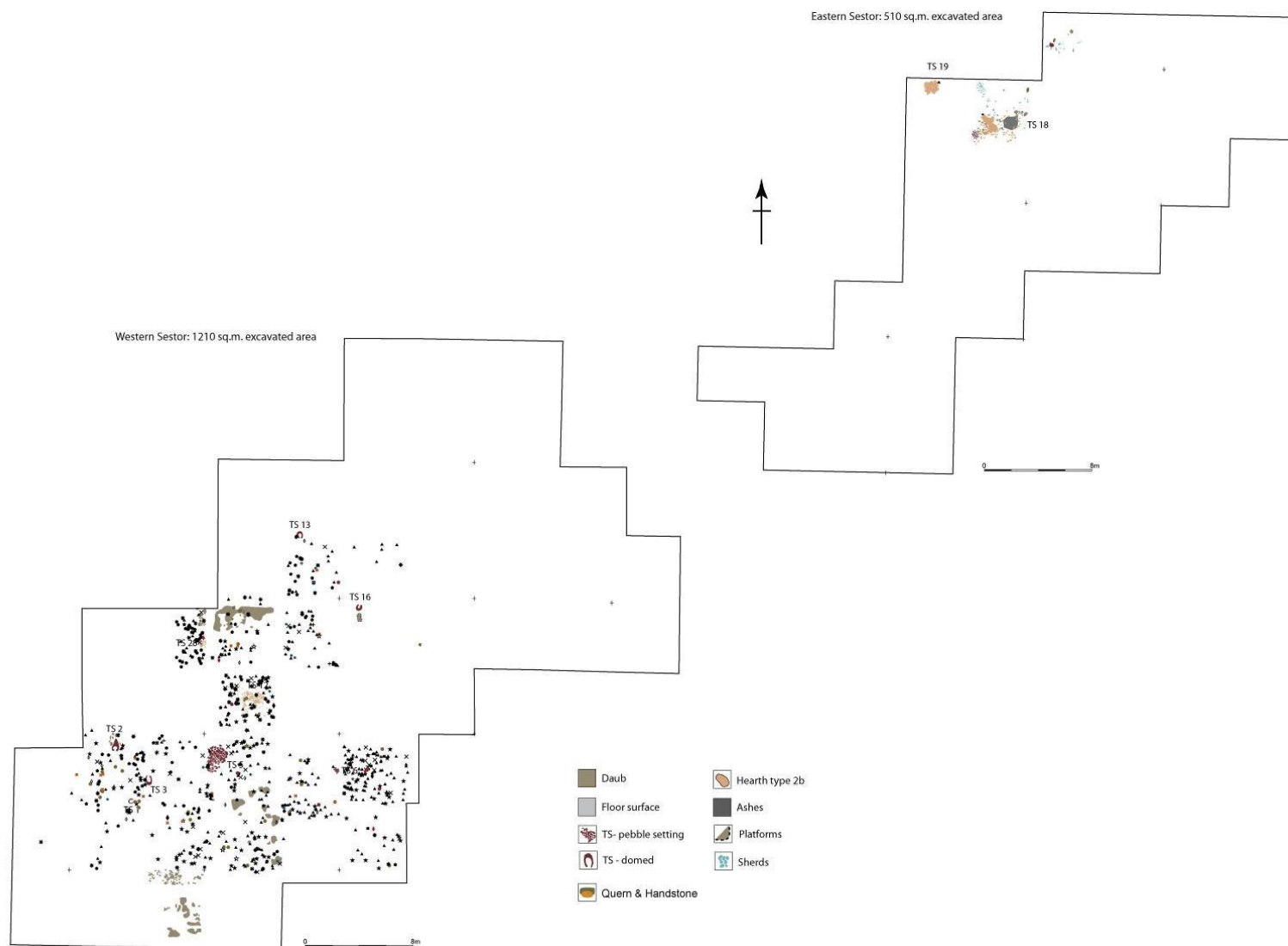
**Plan 5. 8** Large-scale plan that shows the distance among buildings and features at Avgi II and suggests possible movements and paths among them (see also Portfolio).



**Plan 5. 9** Large-scale plan that shows the distribution of all four categories of finds at Avgi I: chipped stone, groundstone, bone tools and miscellaneous objects (see Plan 5.1; Portfolio).

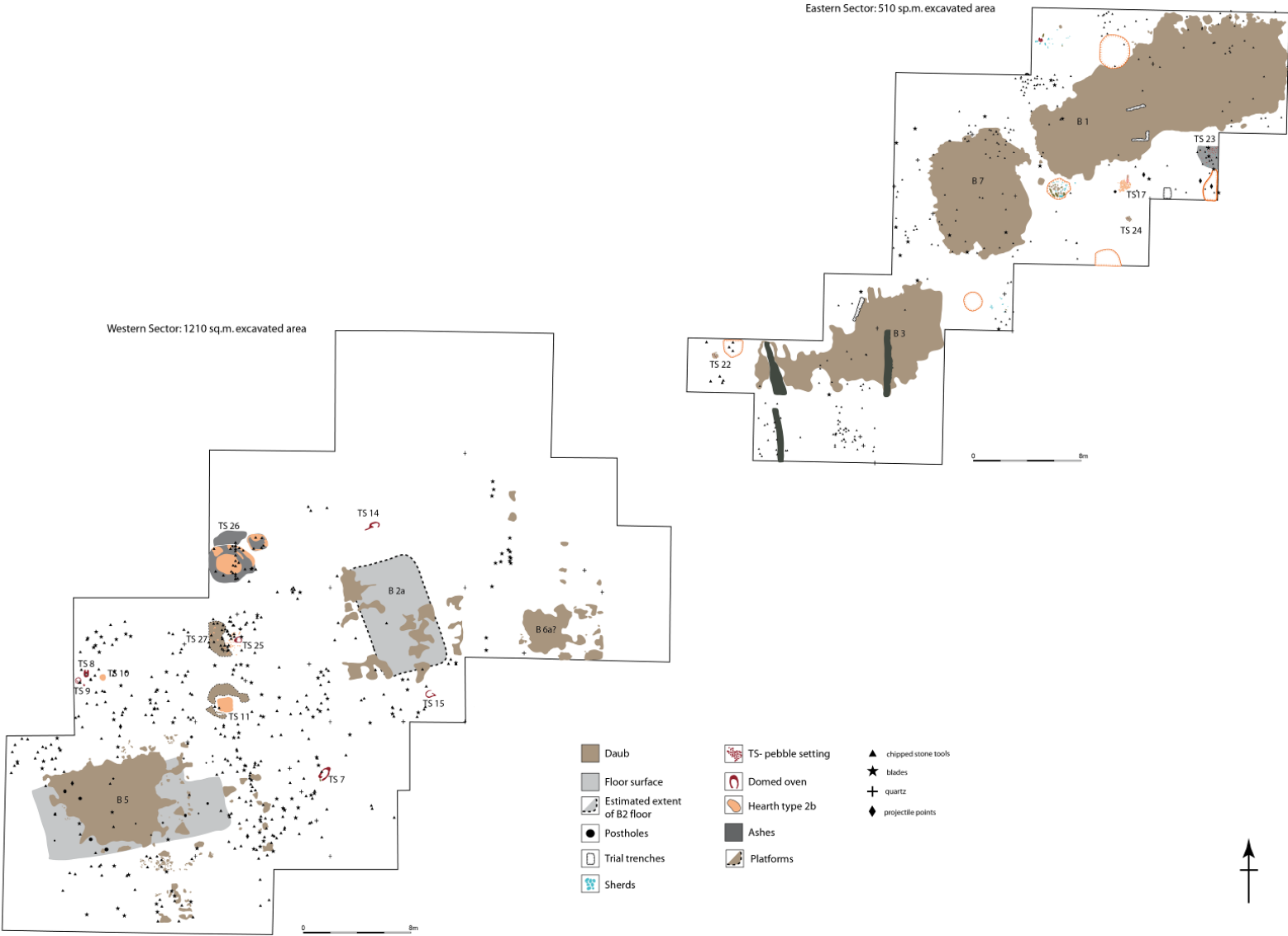


**Plan 5. 10** Large-scale plan that shows the distribution of all four categories of finds at Avgi II: chipped stone, groundstone, bone tools and miscellaneous objects (see Plan 5.1; Portfolio).





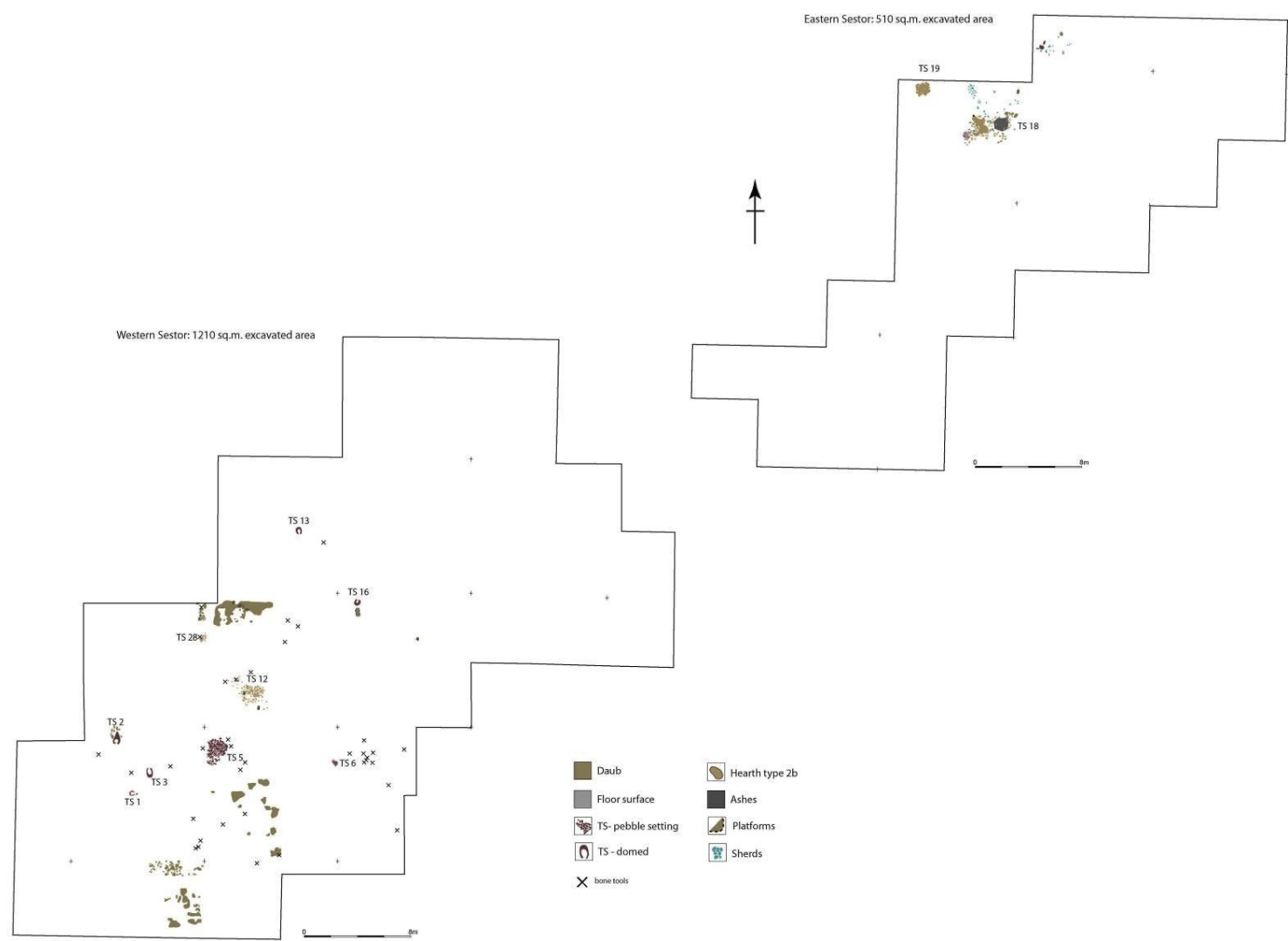
**Plan 5. 11** Avgi I: Large-scale plan that shows the distribution of the chipped stone tools (see also Portfolio).



**Plan 5. 12** Avgi I: Large-scale plan that shows the distribution of the groundstone tools (see also Portfolio).



**Plan 5. 13** Avgi I: large-scale plan that shows the distribution of the bone tools.

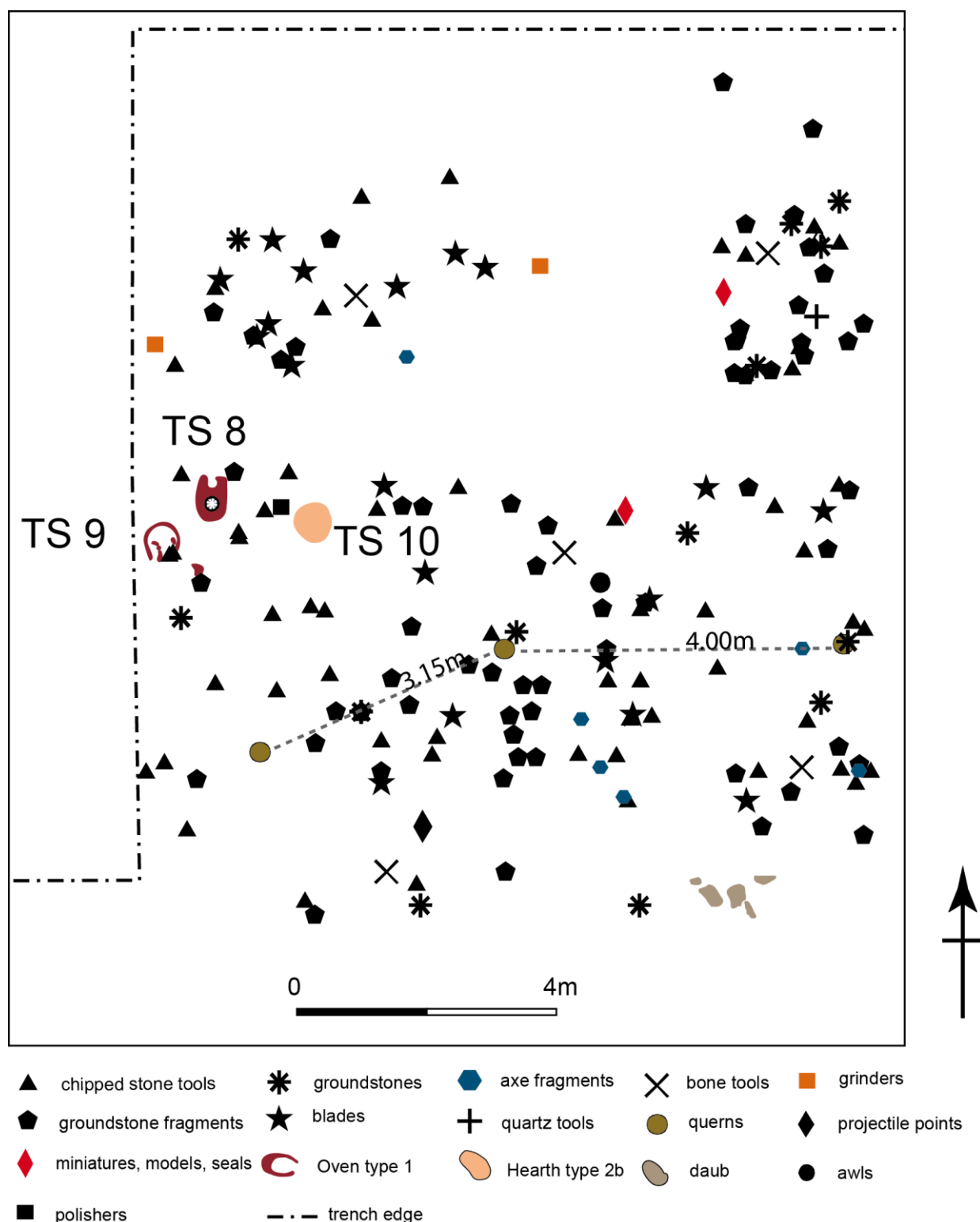


**Plan 5. 14** Large-scale plan that shows the distribution of all four categories of finds at Avgi I: the red-dotted boxes mark the areas of small-scale spatial and contextual analysis. (see Portfolio).

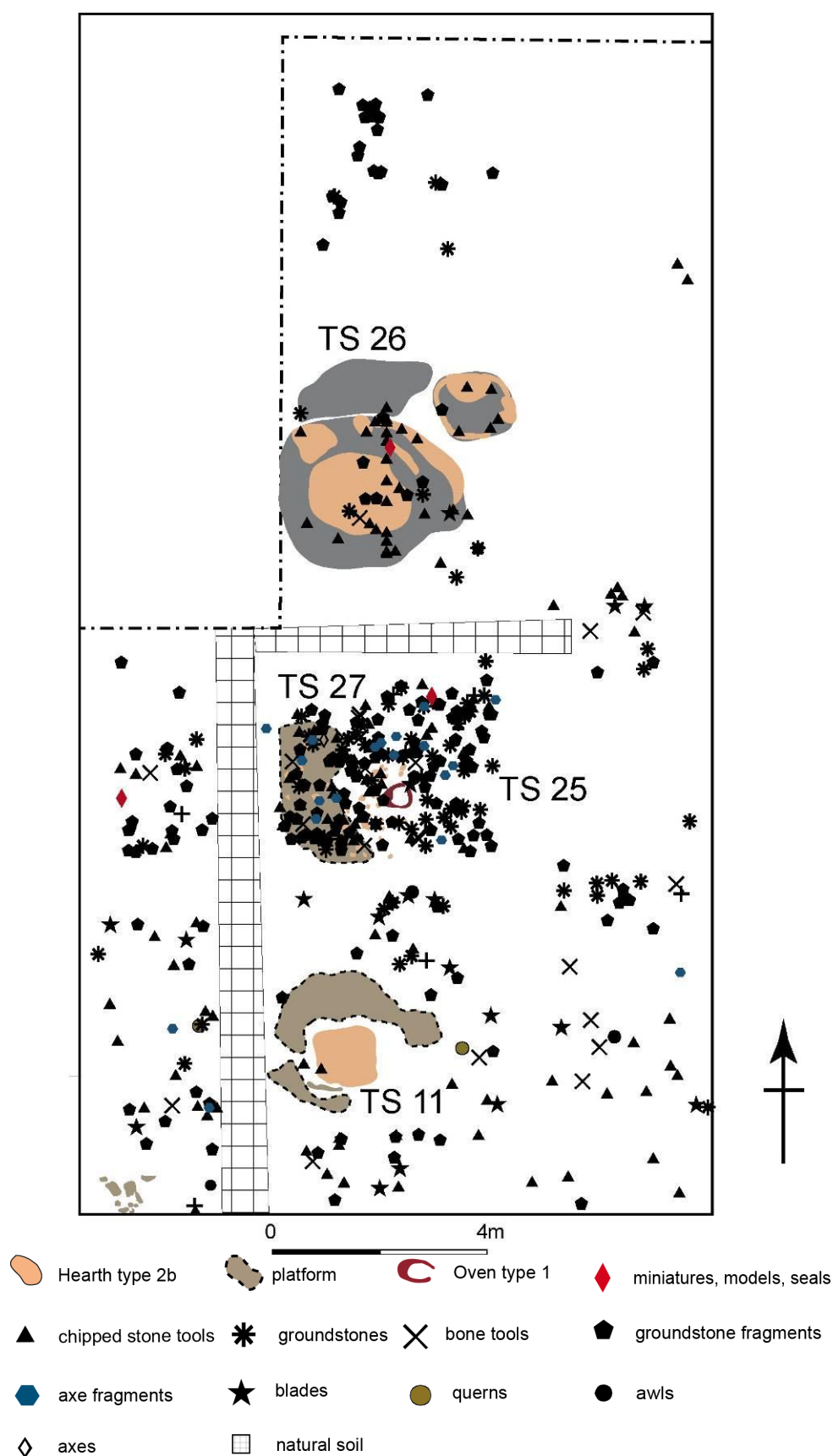




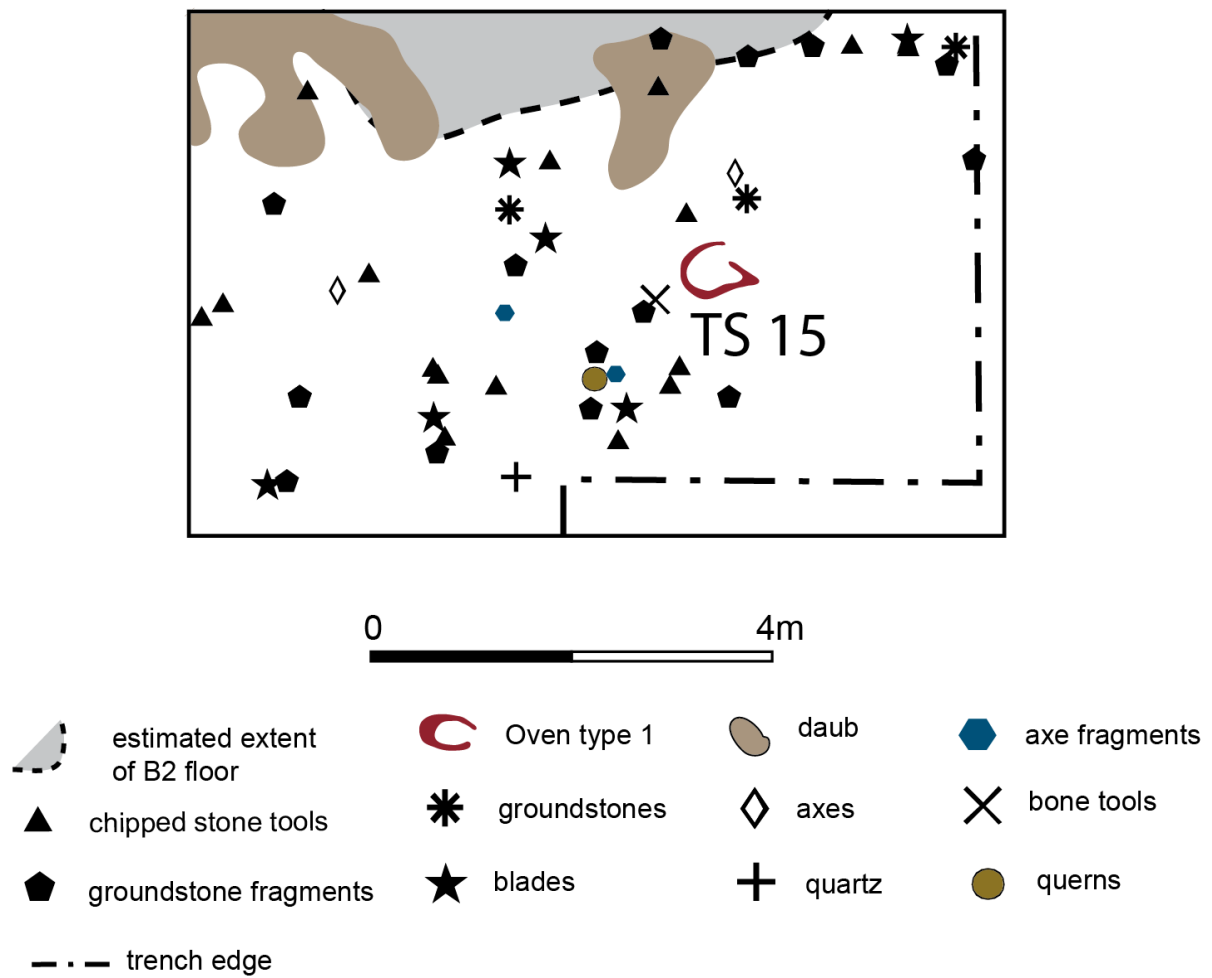
**Plan 5. 15** Small-scale plan of the distribution of finds in TS 8, TS 9 and TS 10 kitchen spaces.



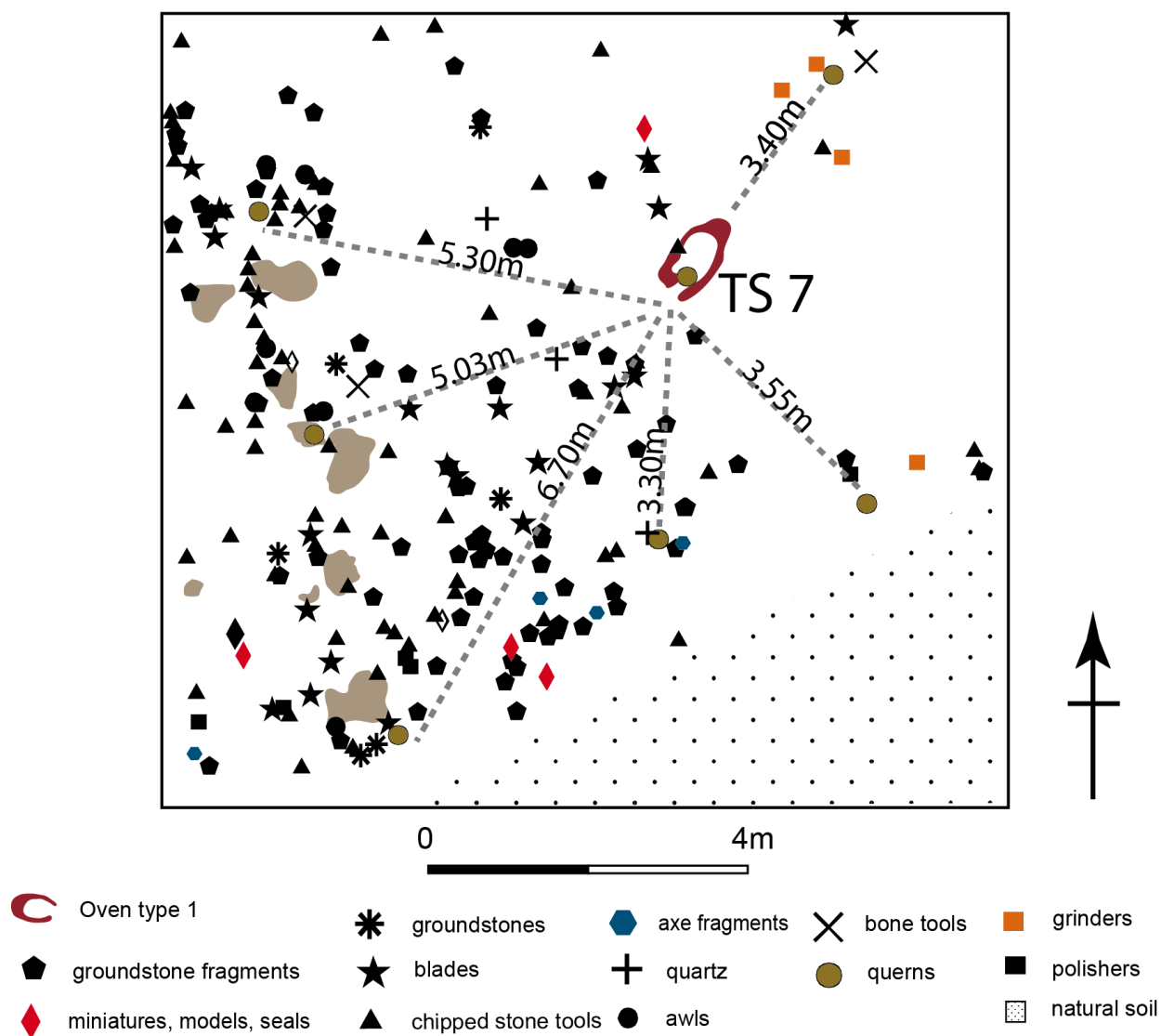
**Plan 5. 16** Small-scale plan of the distribution of finds in TS 11, TS 25, TS 26 and TS 27 North-western complex.



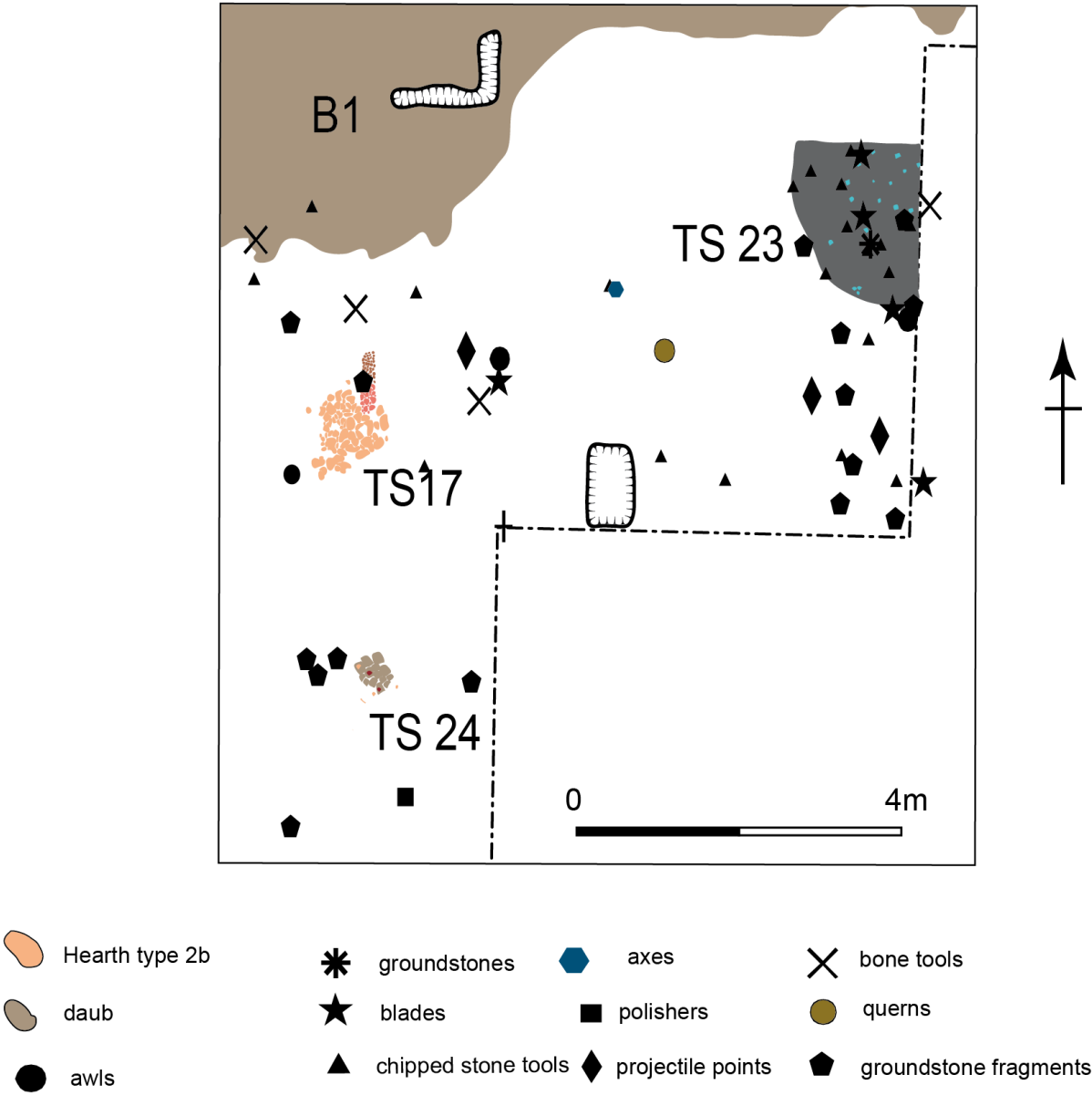
**Plan 5. 17** Small-scale plan of the distribution of finds in TS 15 kitchen space.



**Plan 5. 18** Small-scale plan of the distribution of finds in TS 2 kitchen space.

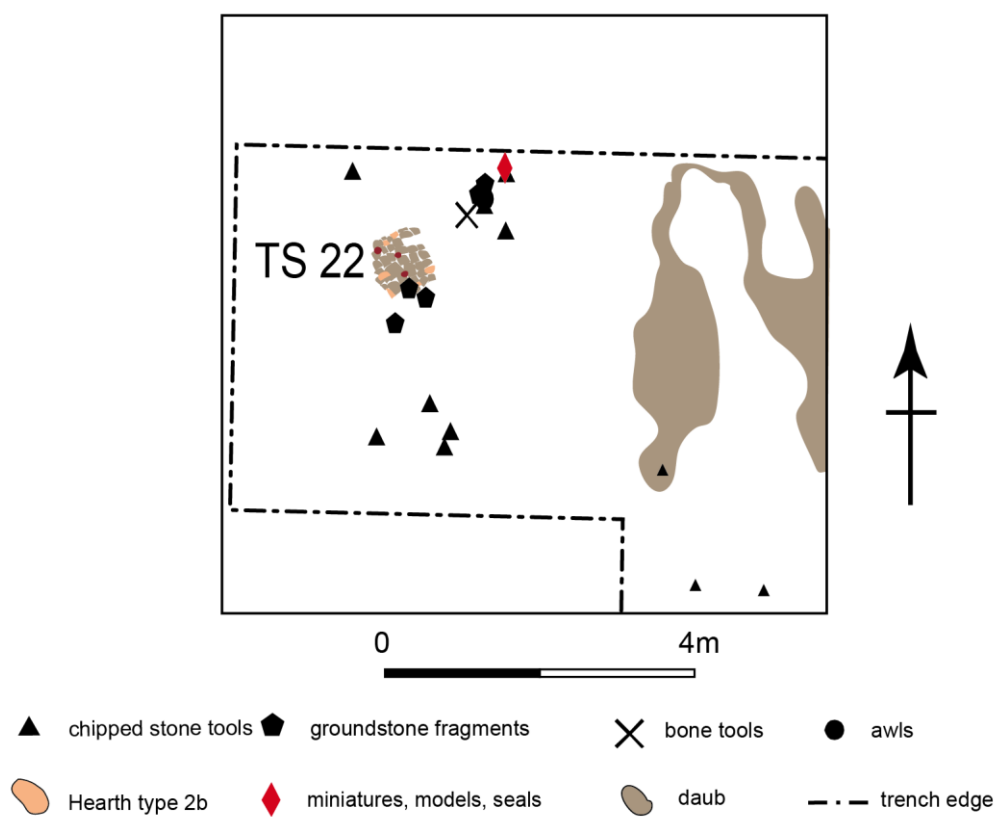


**Plan 5. 19** Small-scale plan of the distribution of finds in TS 17 and TS 23 kitchen spaces.

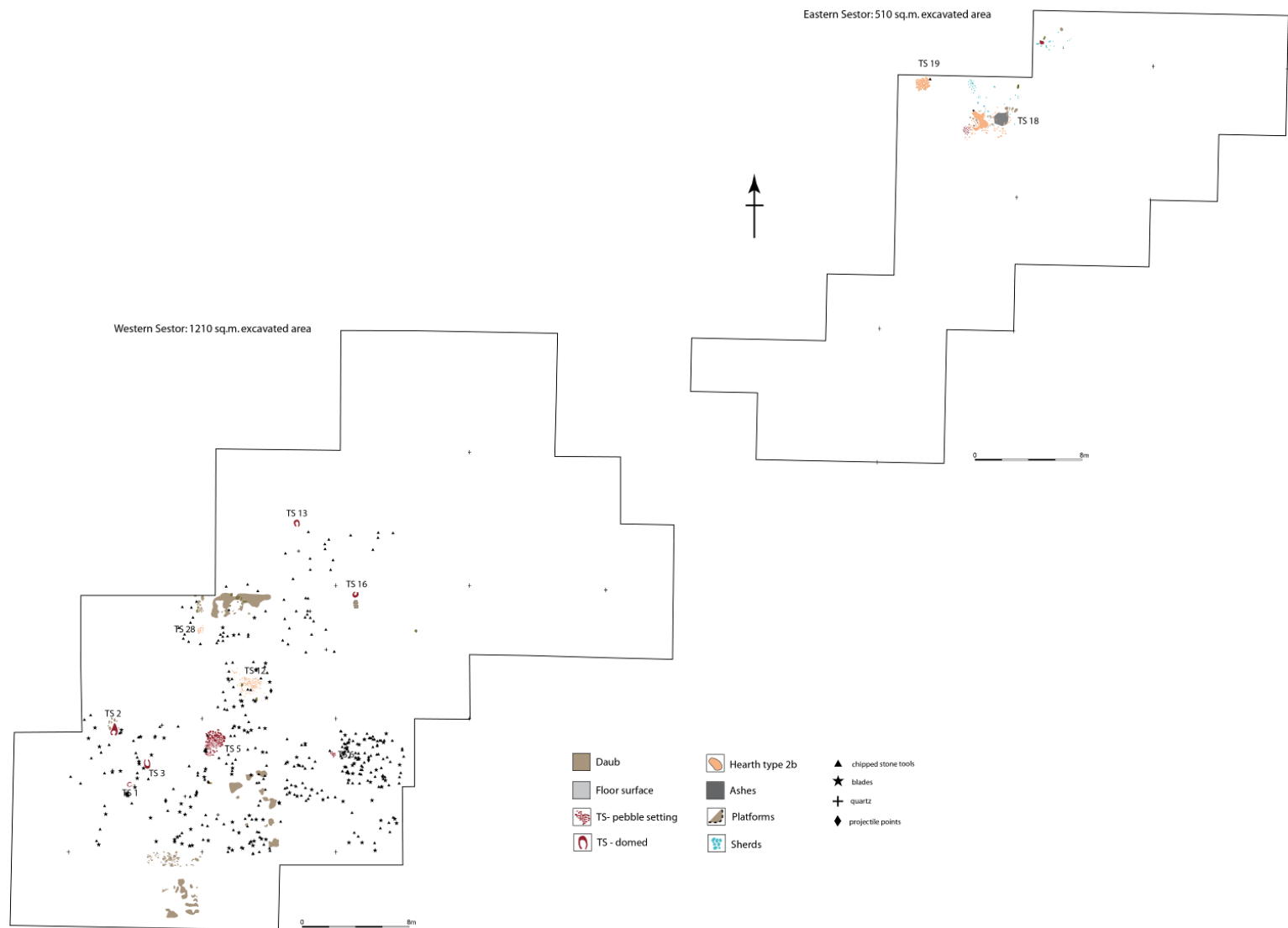




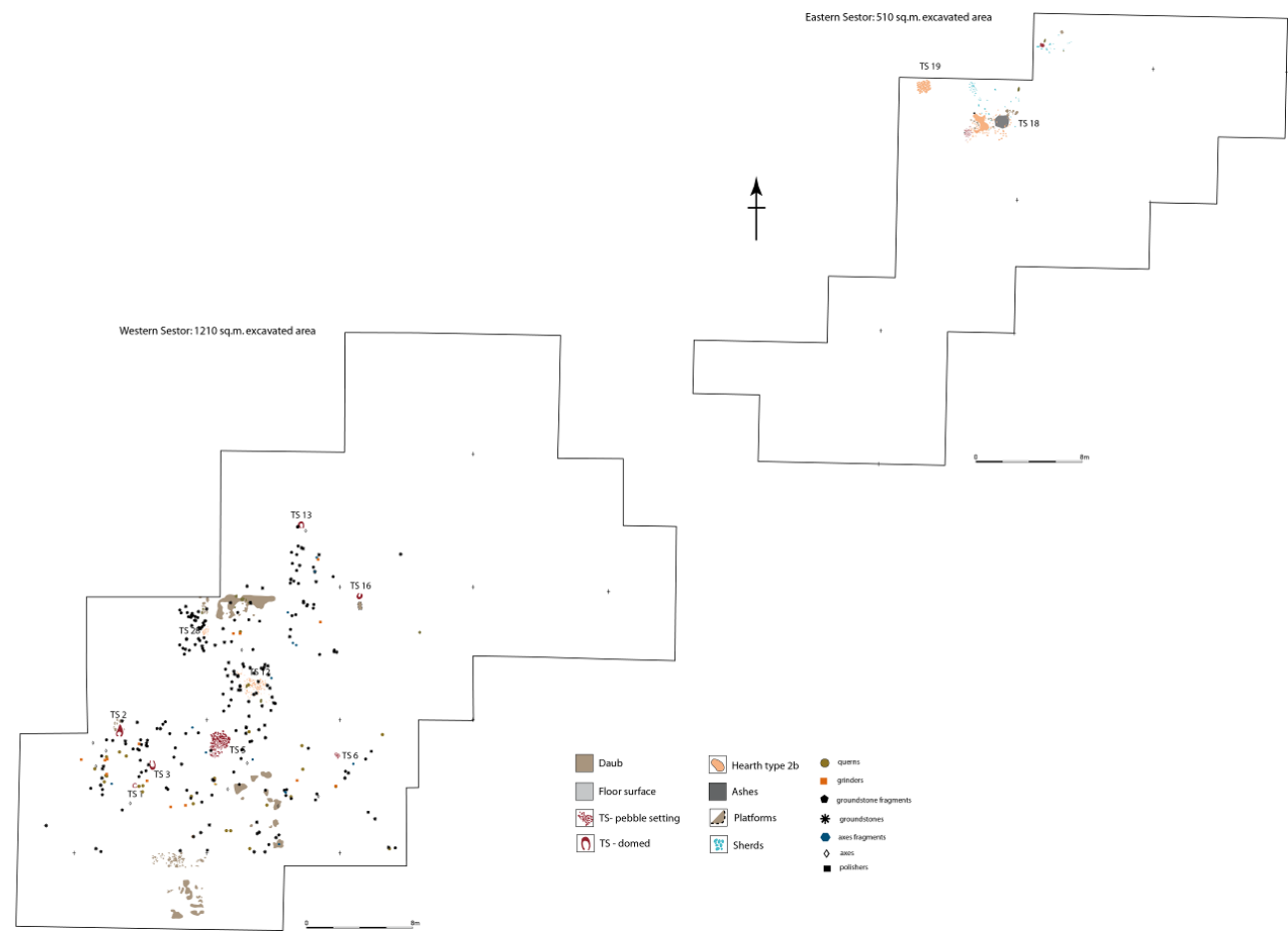
**Plan 5. 20** Small-scale plan of the distribution of finds in TS 22 kitchen space.



**Plan 5. 21** Avgi II: Large-scale plan that shows the distribution of the chipped stone tools (see also Portfolio).



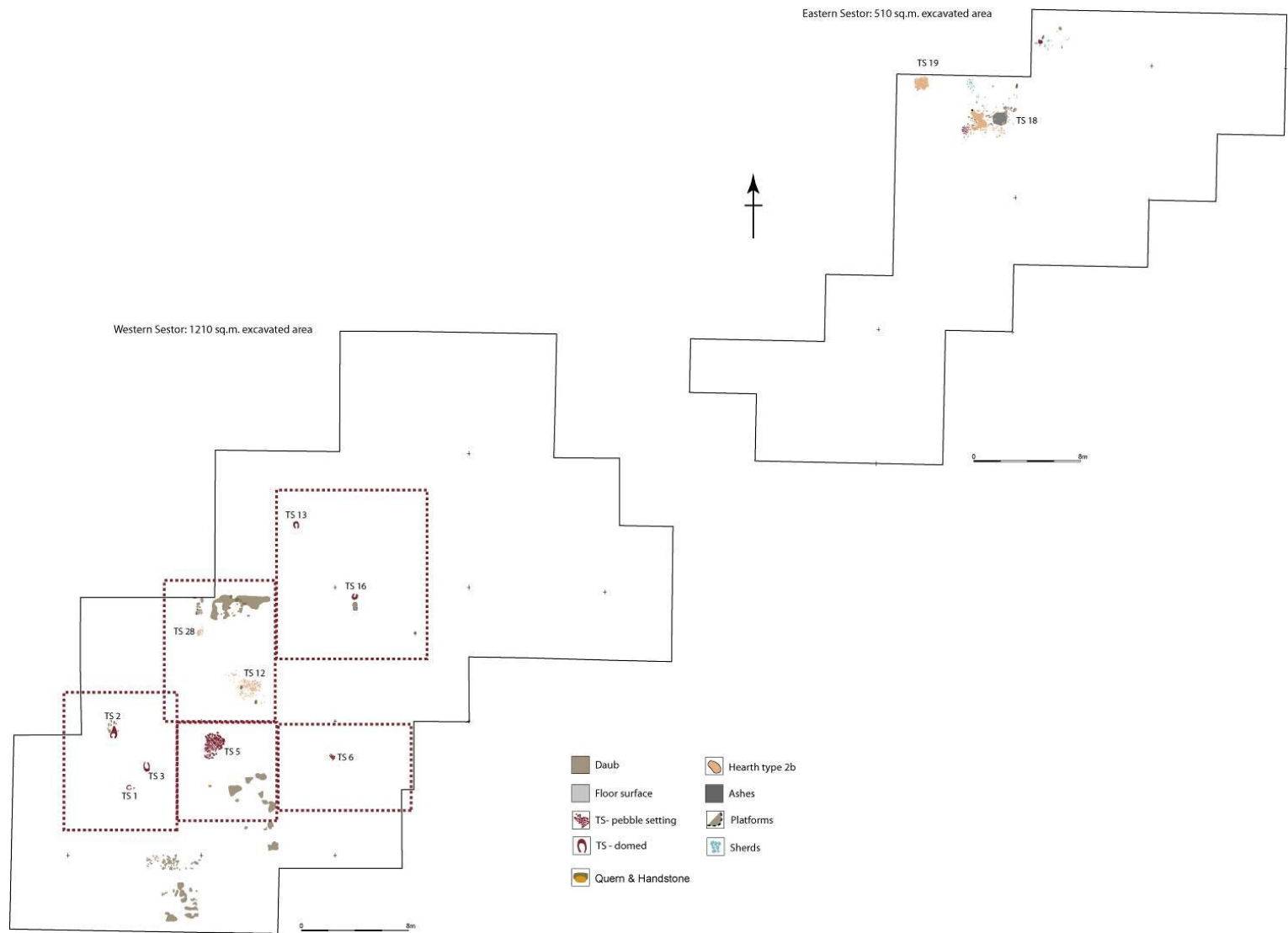
**Plan 5. 22** Avgi II: Large-scale plan that shows the distribution of the groundstone tools (see also Portfolio).



**Plan 5. 23** Avgi I: Large-scale plan that shows the distribution of the bone tools.

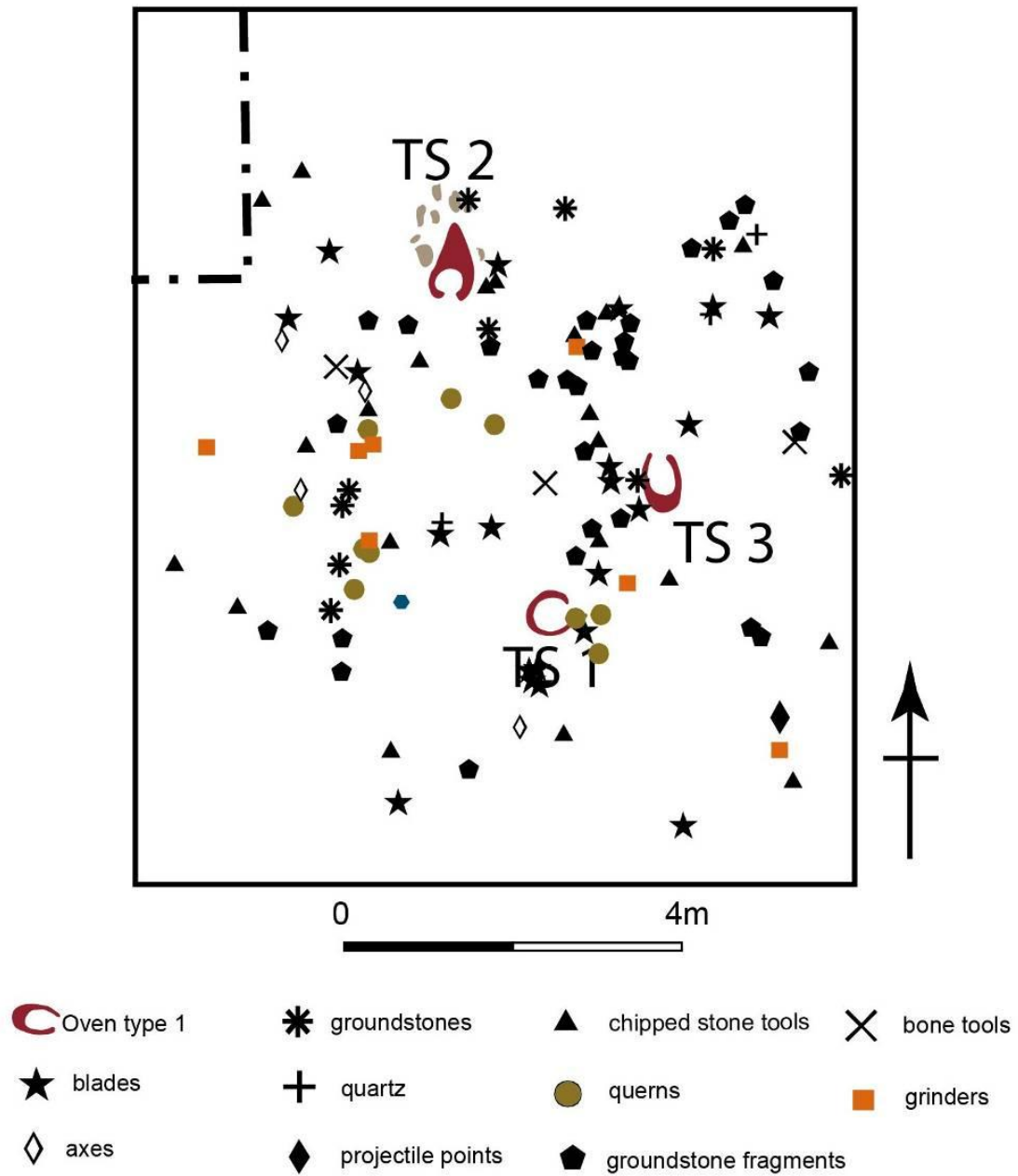


**Plan 5. 24** Large-scale plan that shows the distribution of all four categories of finds at Avgi II: the red-dotted boxes mark the areas of small-scale spatial and contextual analysis. (see Portfolio).

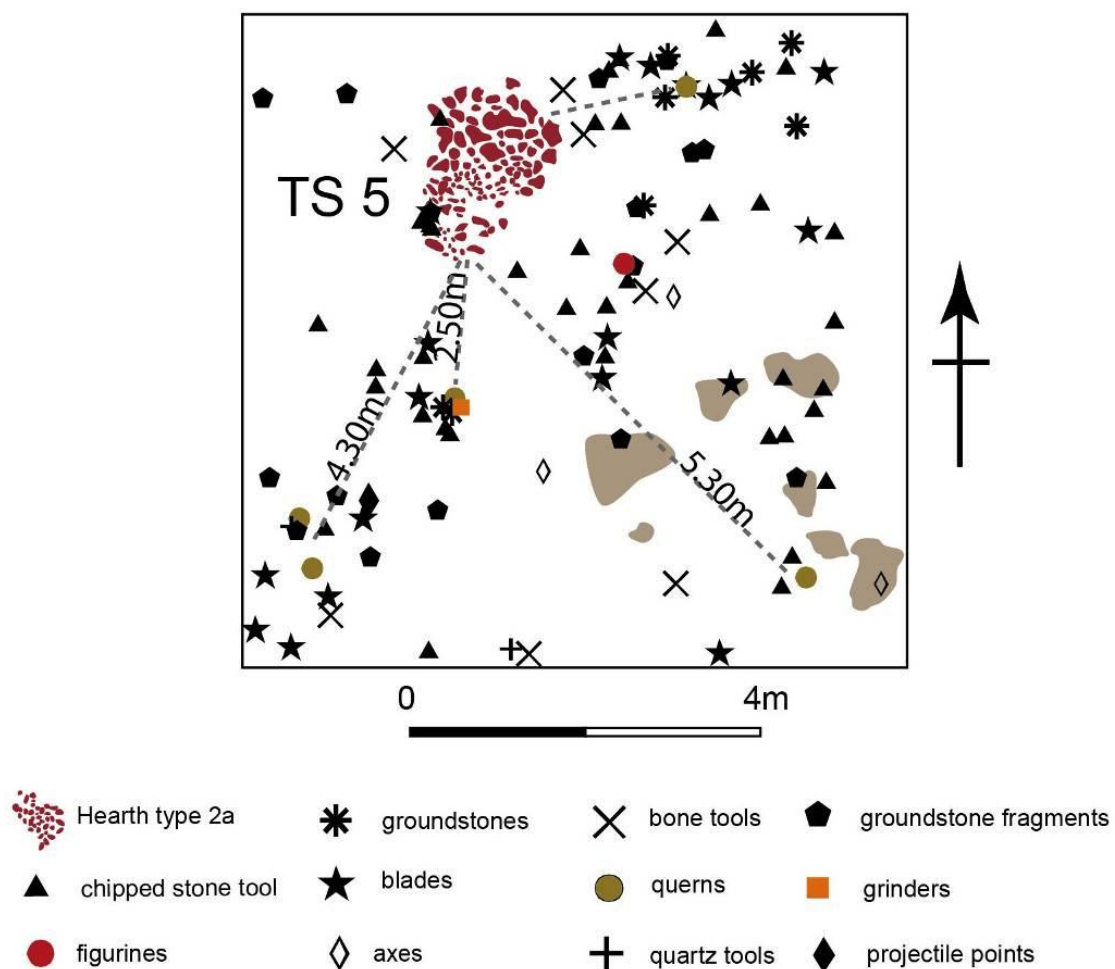




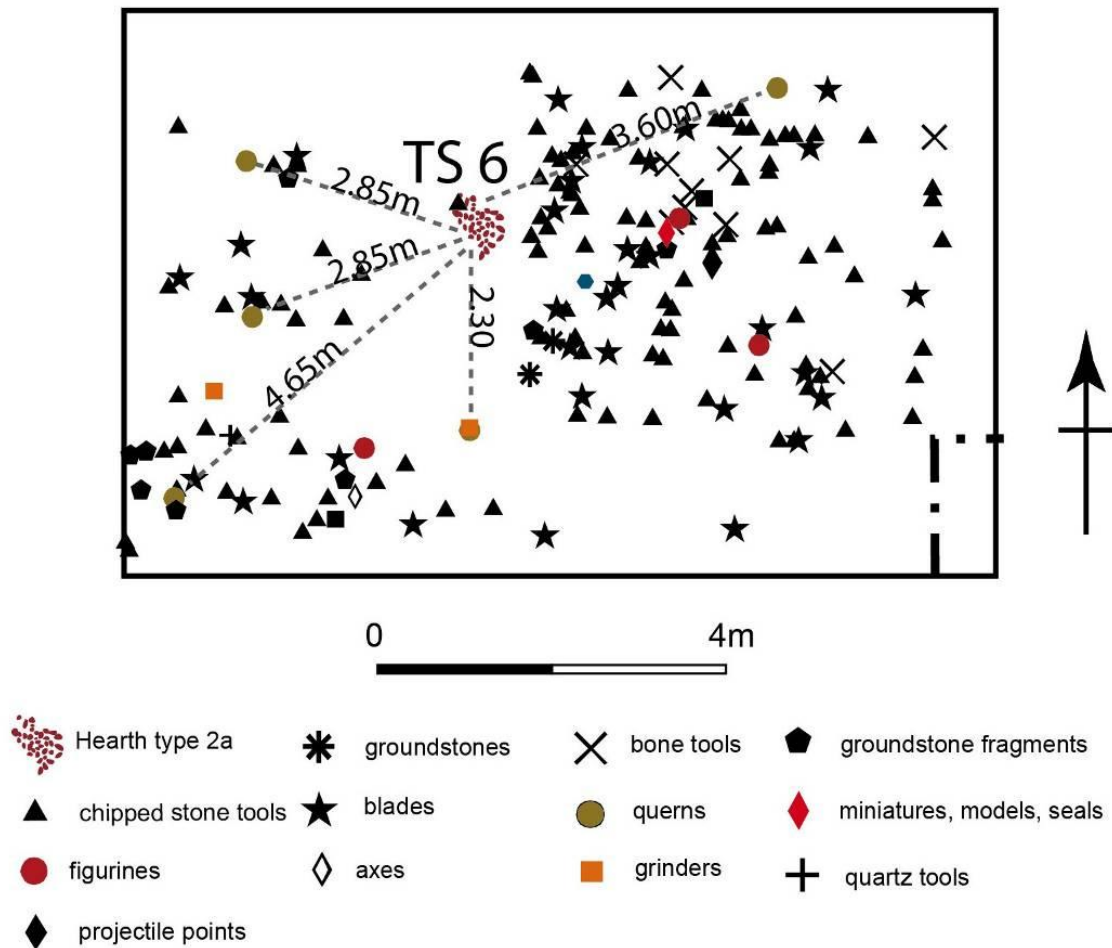
**Plan 5. 25** Small-scale plan of the distribution of finds in TS 1, TS 3 and TS 3 kitchen spaces.



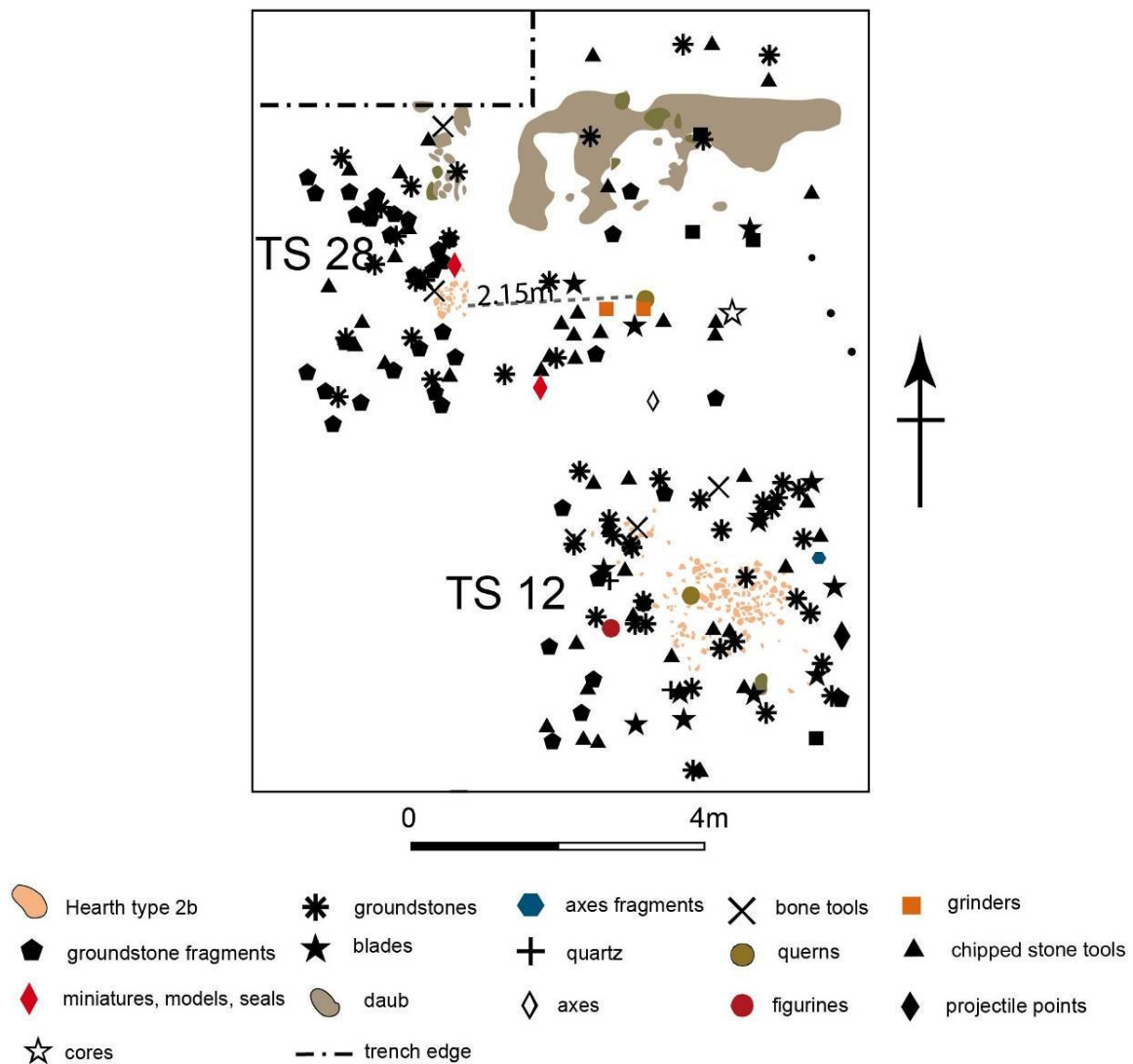
**Plan 5. 26** Small-scale plan of the distribution of finds in TS 5 kitchen space.



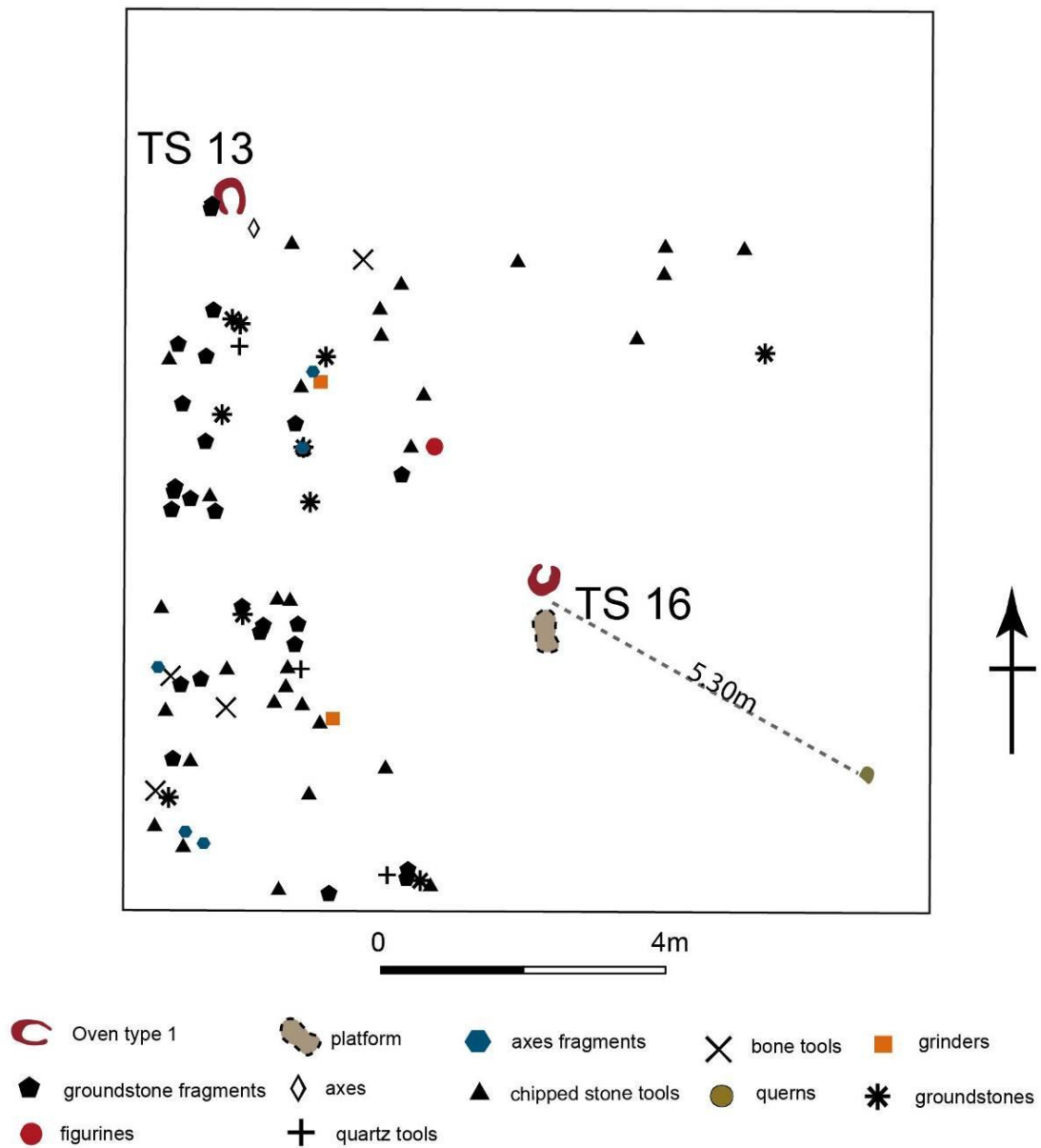
**Plan 5. 27** Small-scale plan of the distribution of finds in TS 6 kitchen space.



**Plan 5. 28** Small-scale plan of the distribution of finds in TS 28 and TS 12 kitchen spaces.

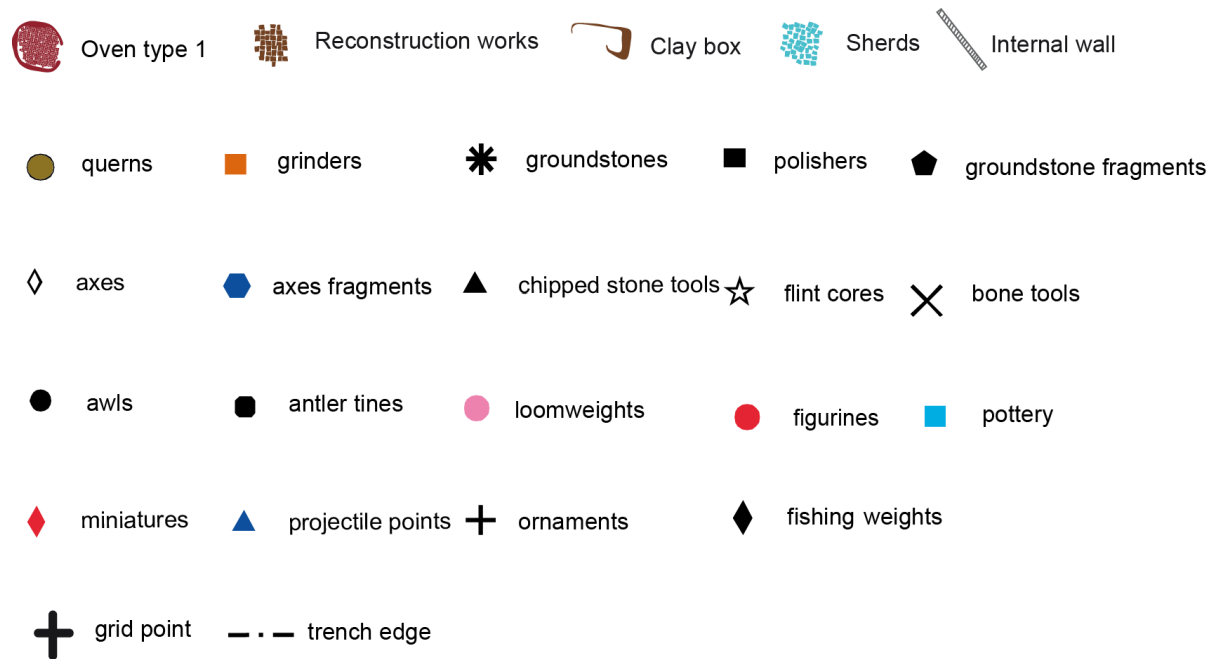


**Plan 5. 29** Small-scale plan of the distribution of finds in TS 13 and TS 16 kitchen spaces.



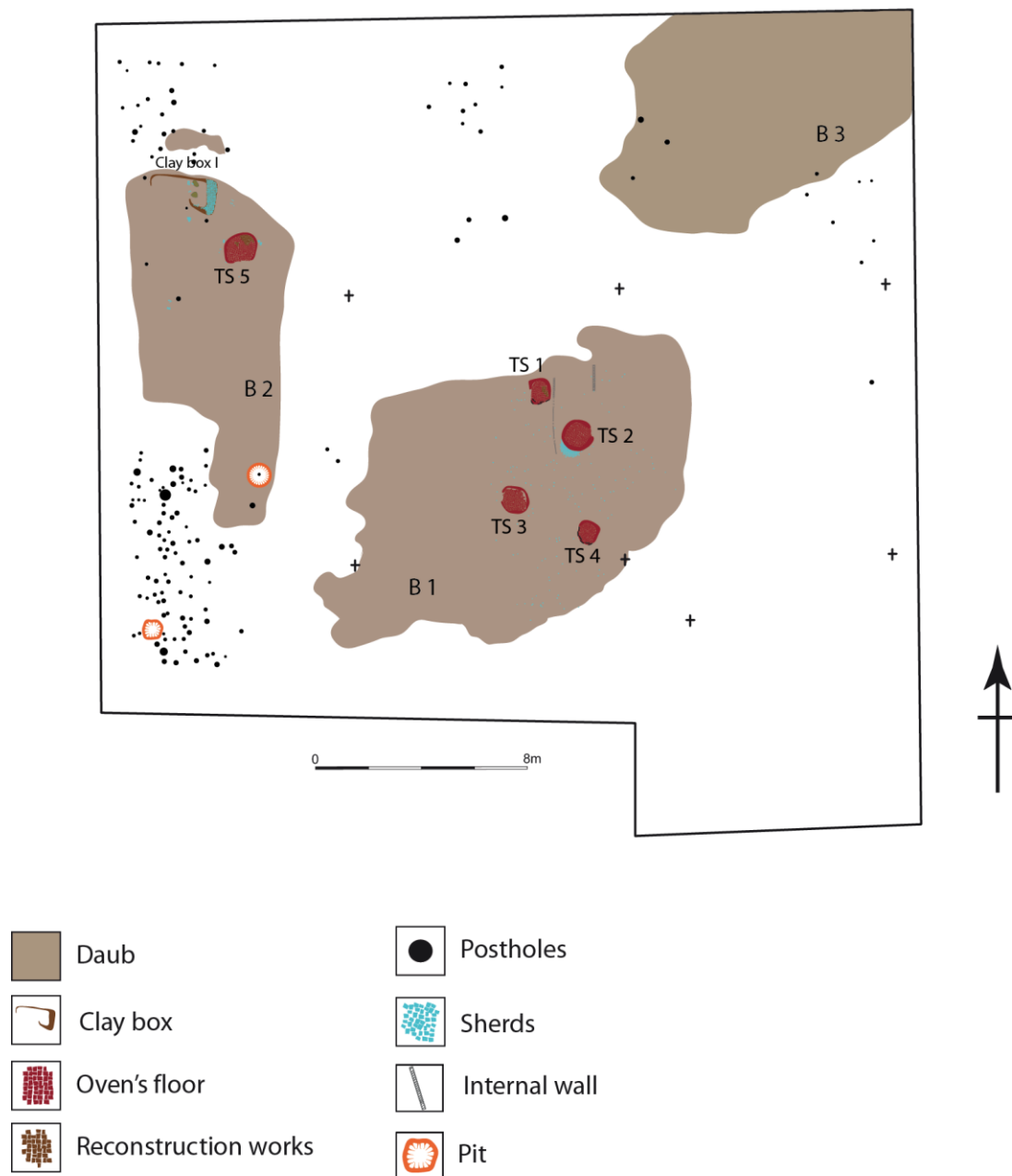


**Plan 6. 1** Legend of the symbols used in the plans.

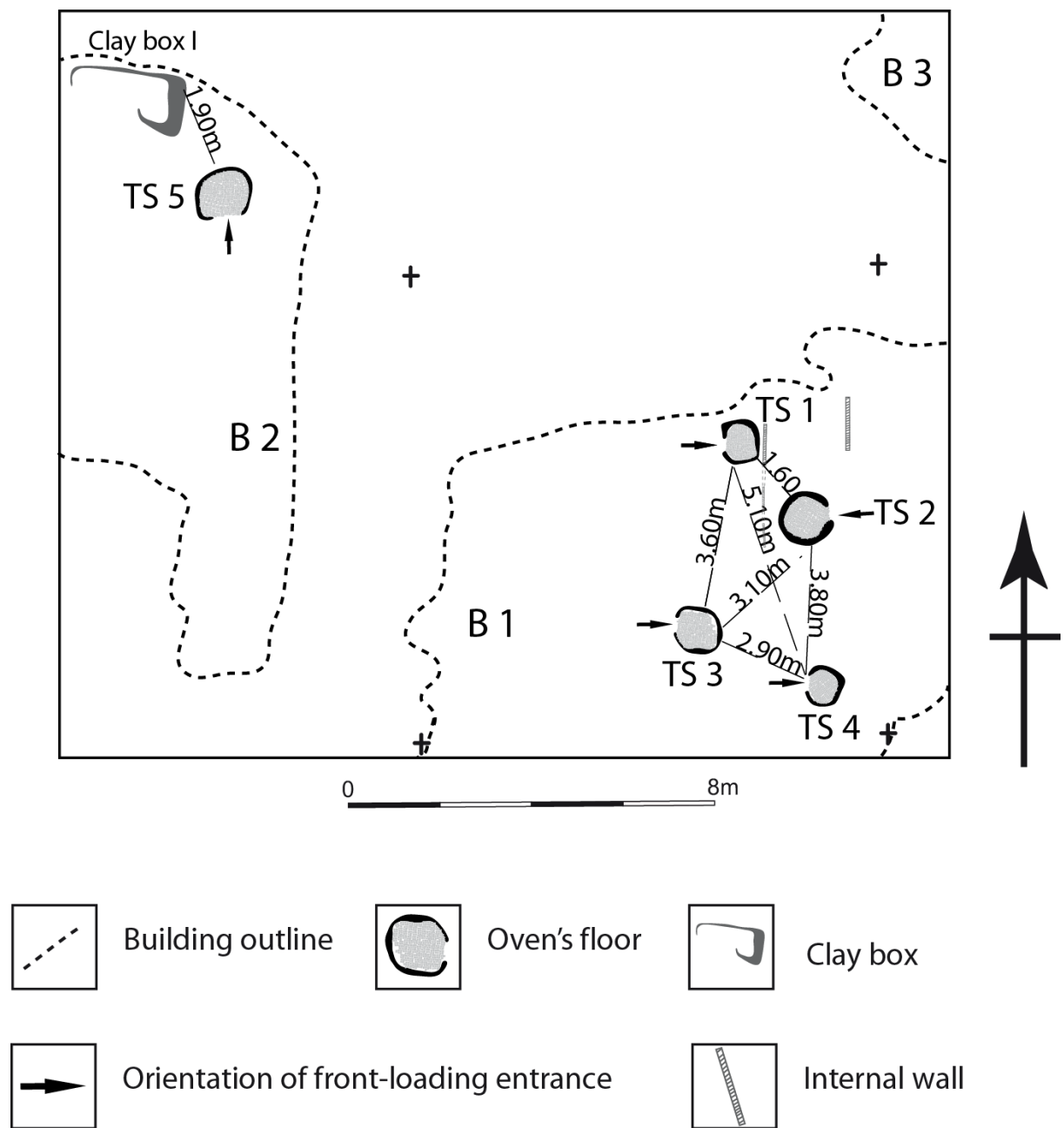


**Plan 6. 2** Large-scale plan of the Western Sector at Dispilio, Phase A that shows the distributions of daub building remains, postholes and Thermal Structures.

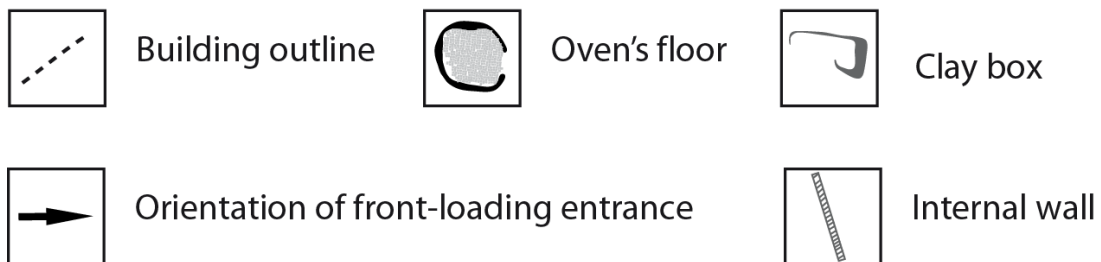
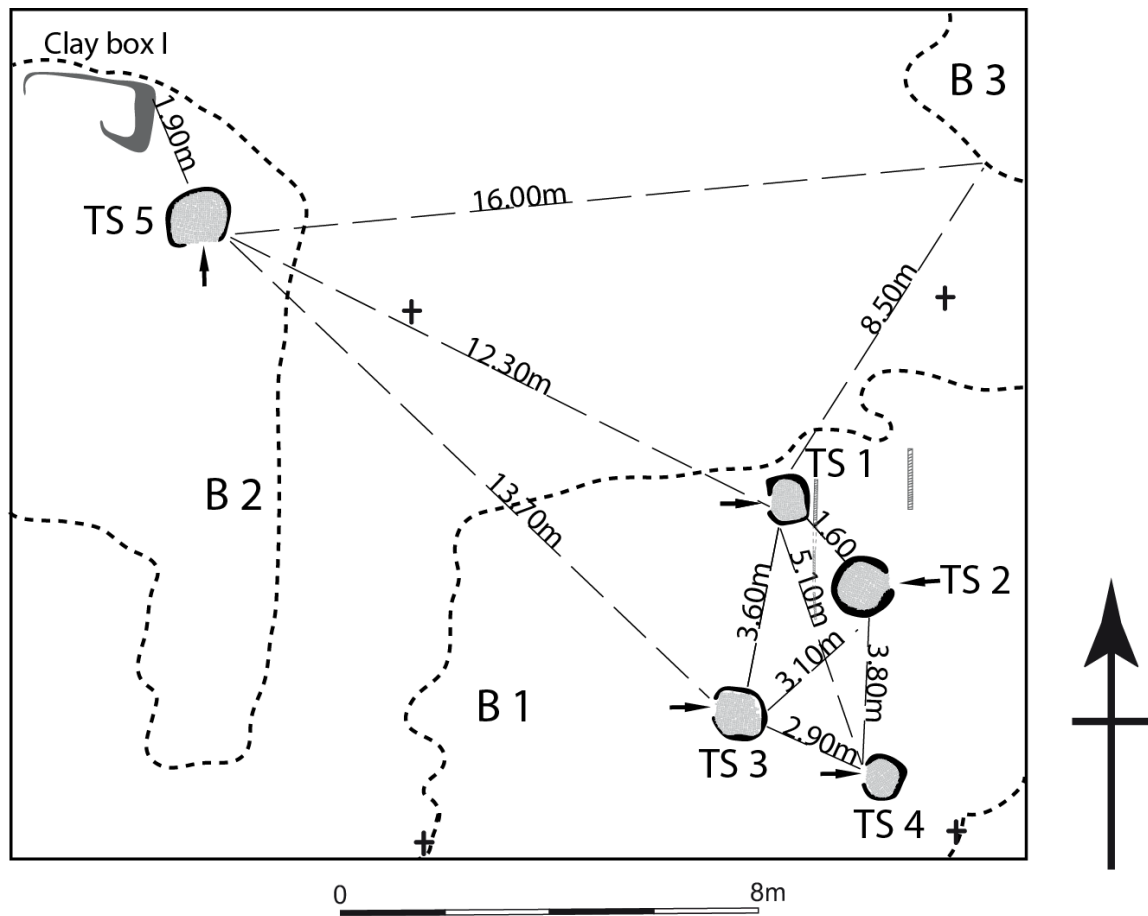
Western Sector: 760 sq.m. excavated area.



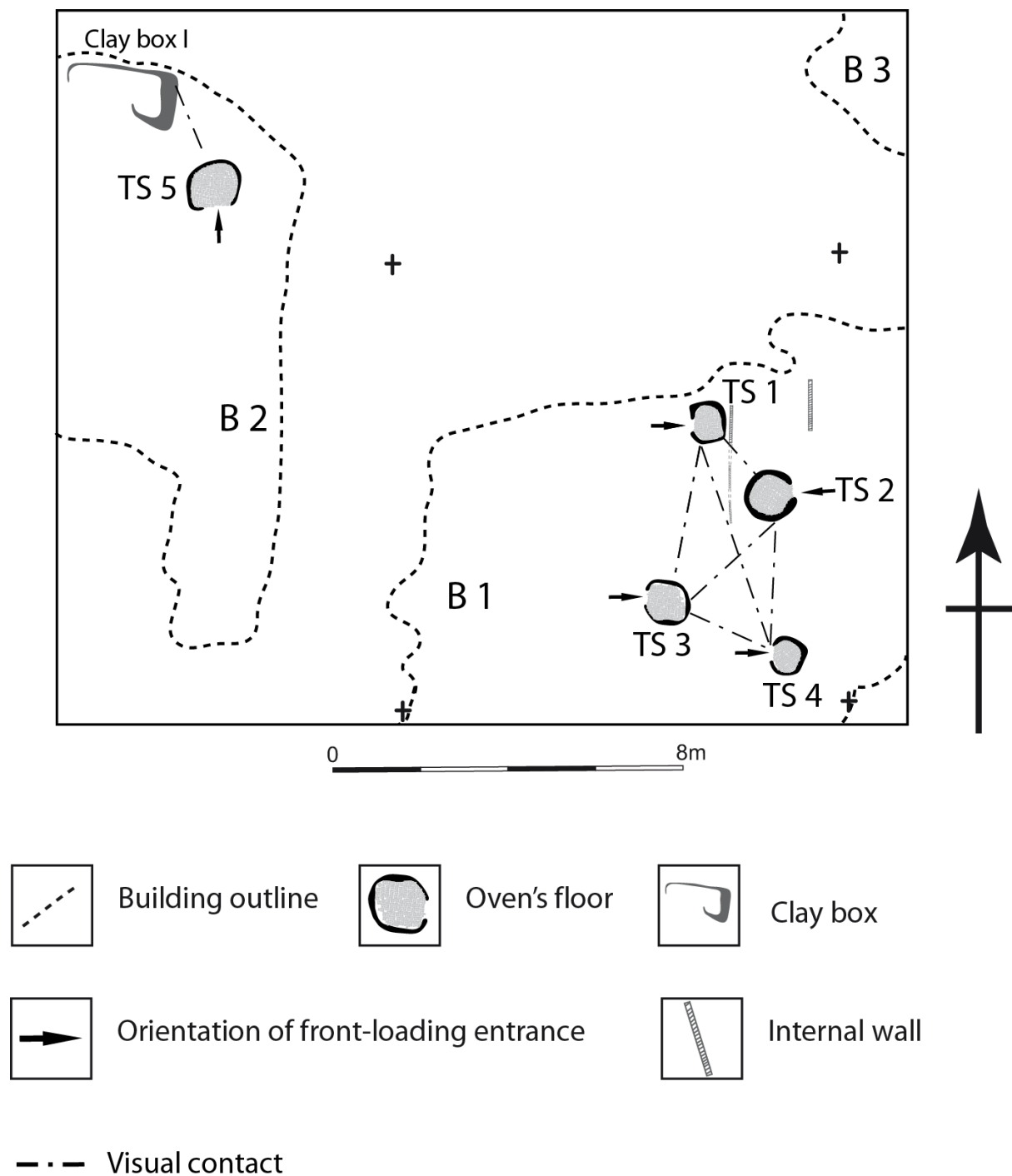
**Plan 6. 3** Plan that shows the orientation of the front-loaded entrance of each oven.



**Plan 6. 4** Suggested movements among Thermal Structures at inner domestic spaces and between buildings.



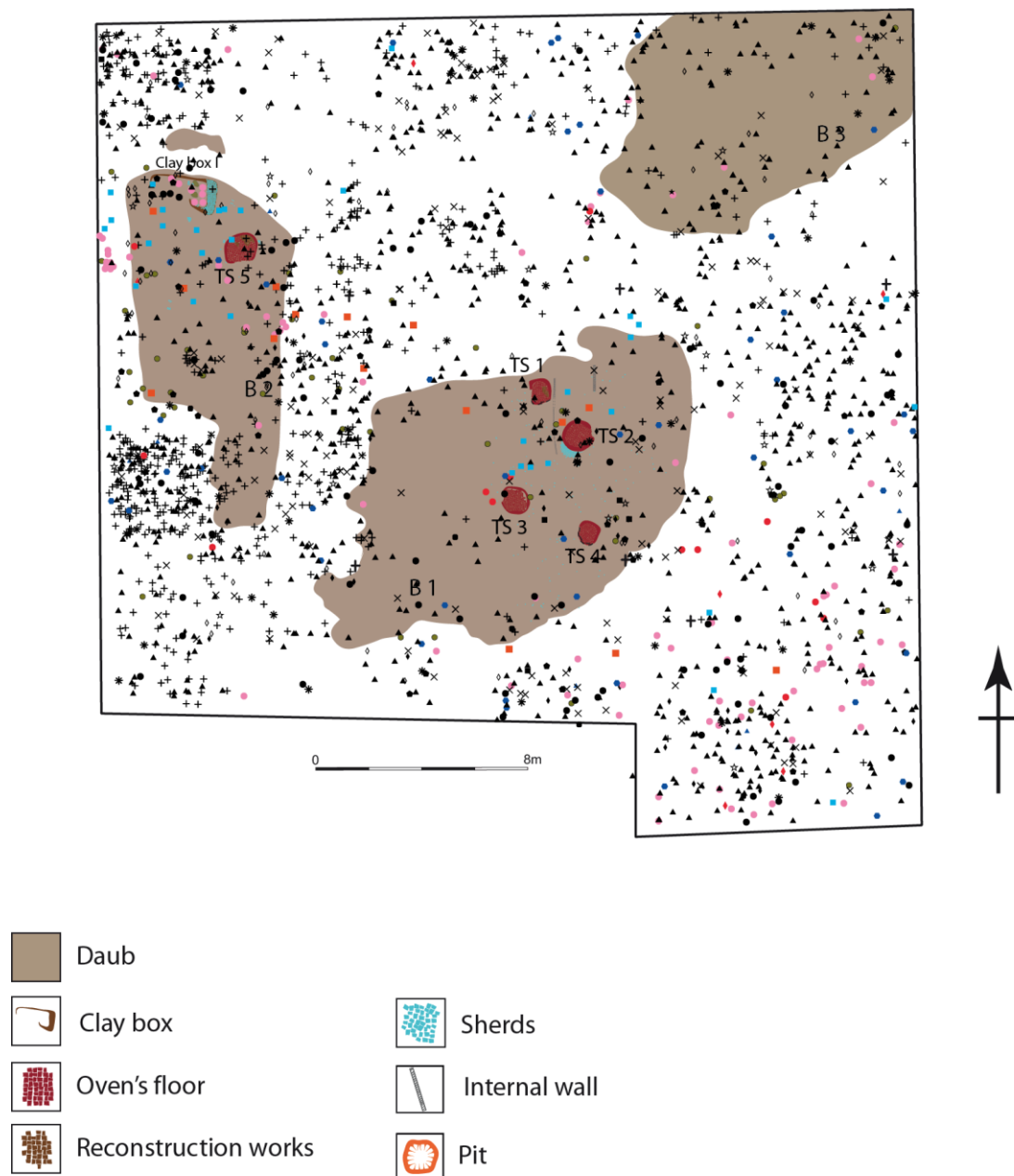
**Plan 6. 5** Suggested visual routes among the features inside Building 1 and Building 2.





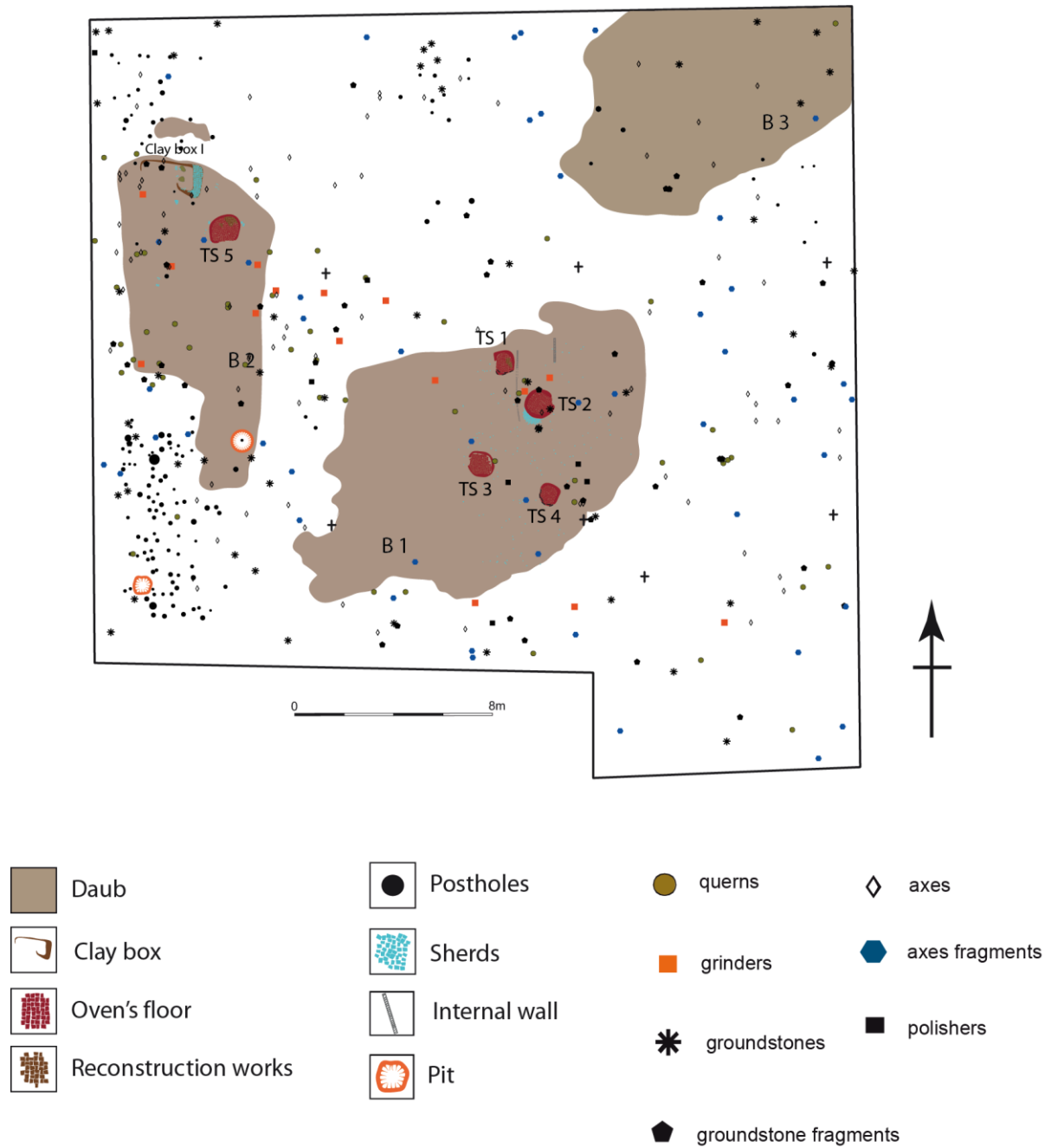
**Plan 6. 6** Distributions of all five categories of finds: chipped stone tools, groundstone tools, bone tools, miscellaneous items and pottery.

Western Sector: 760 sq.m. excavated area.



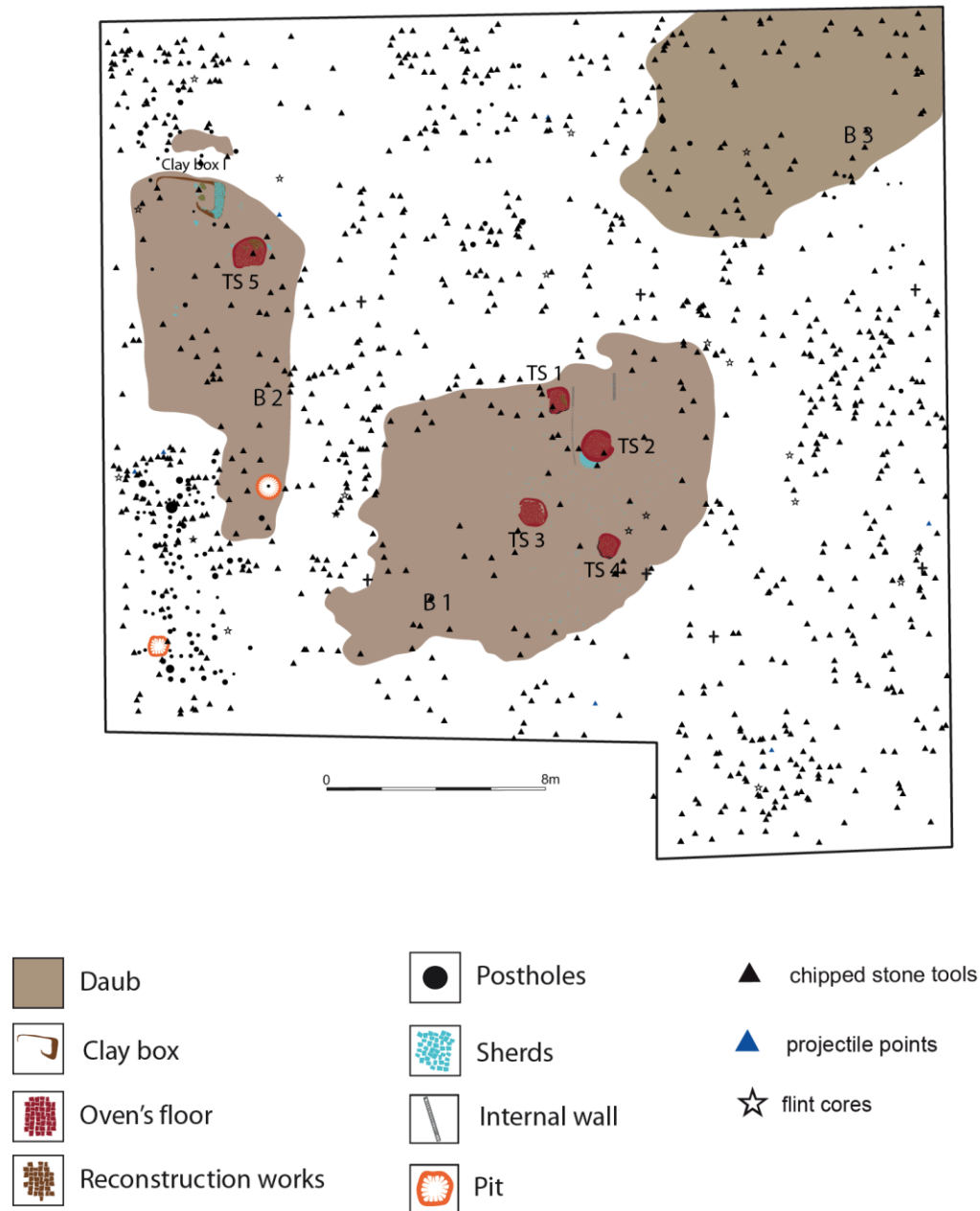
**Plan 6. 7** Western Sector in Dispilio, Phase A: distributions of groundstone tools.

Western Sector: 760 sq.m. excavated area.



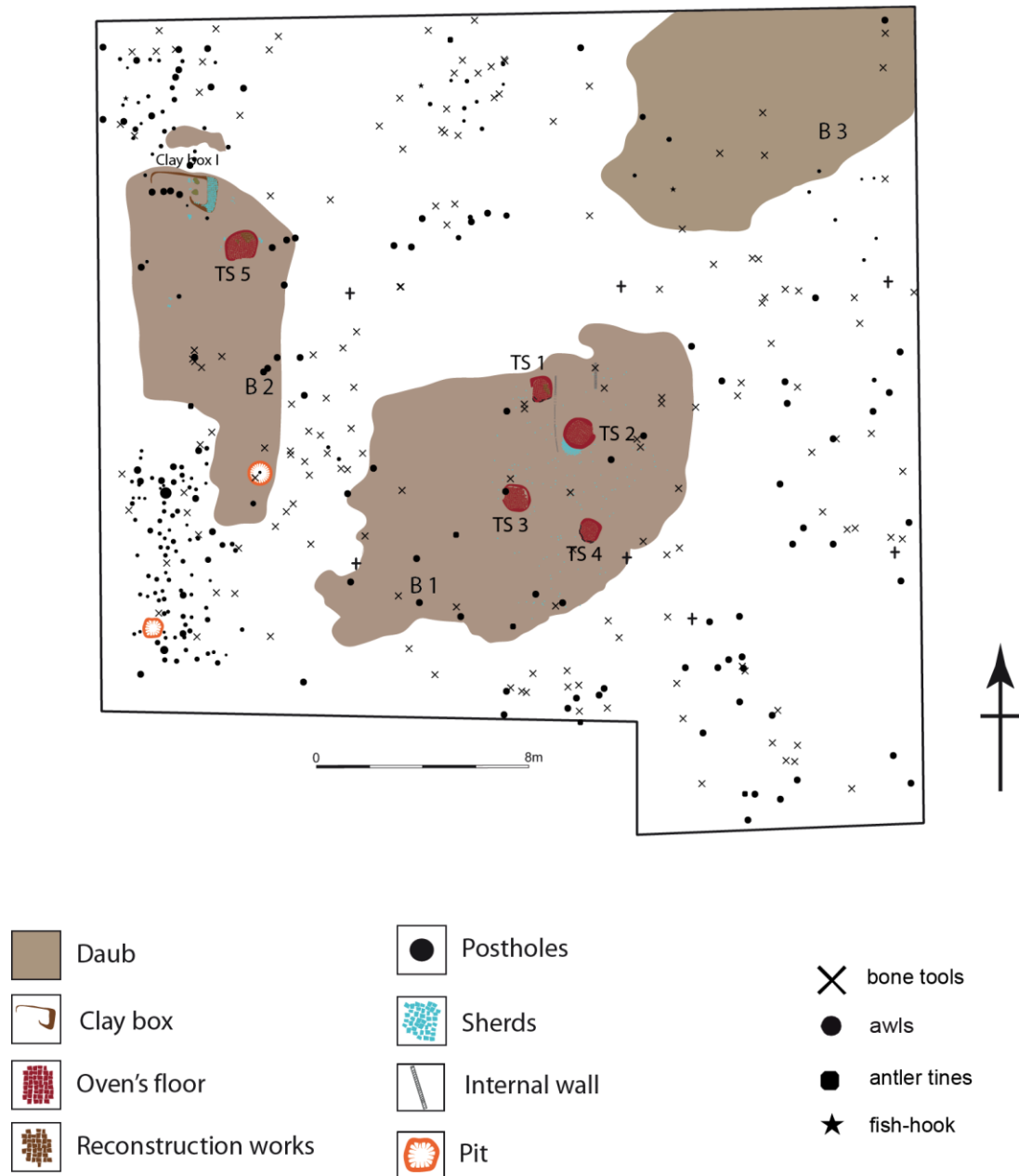
**Plan 6. 8** Western Sector in Dispilio, Phase A: distributions of chipped stone tools.

Western Sector: 760 sq.m. excavated area.



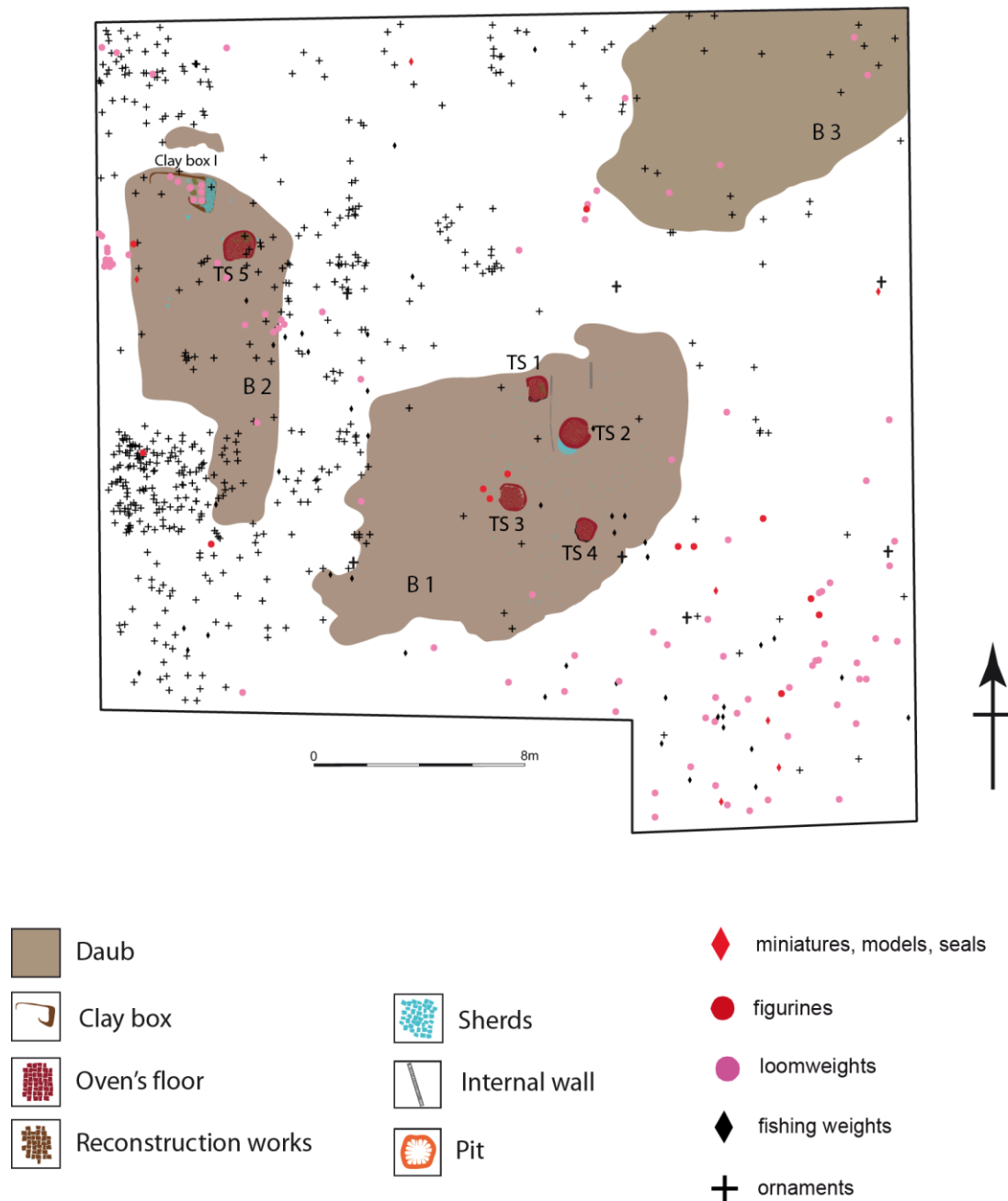
**Plan 6. 9** Western Sector in Dispilio, Phase A: distributions of bone tools.

Western Sector: 760 sq.m. excavated area.



**Plan 6. 10** Western Sector in Dispilio, Phase A: distributions of e miscellaneous items and pots.

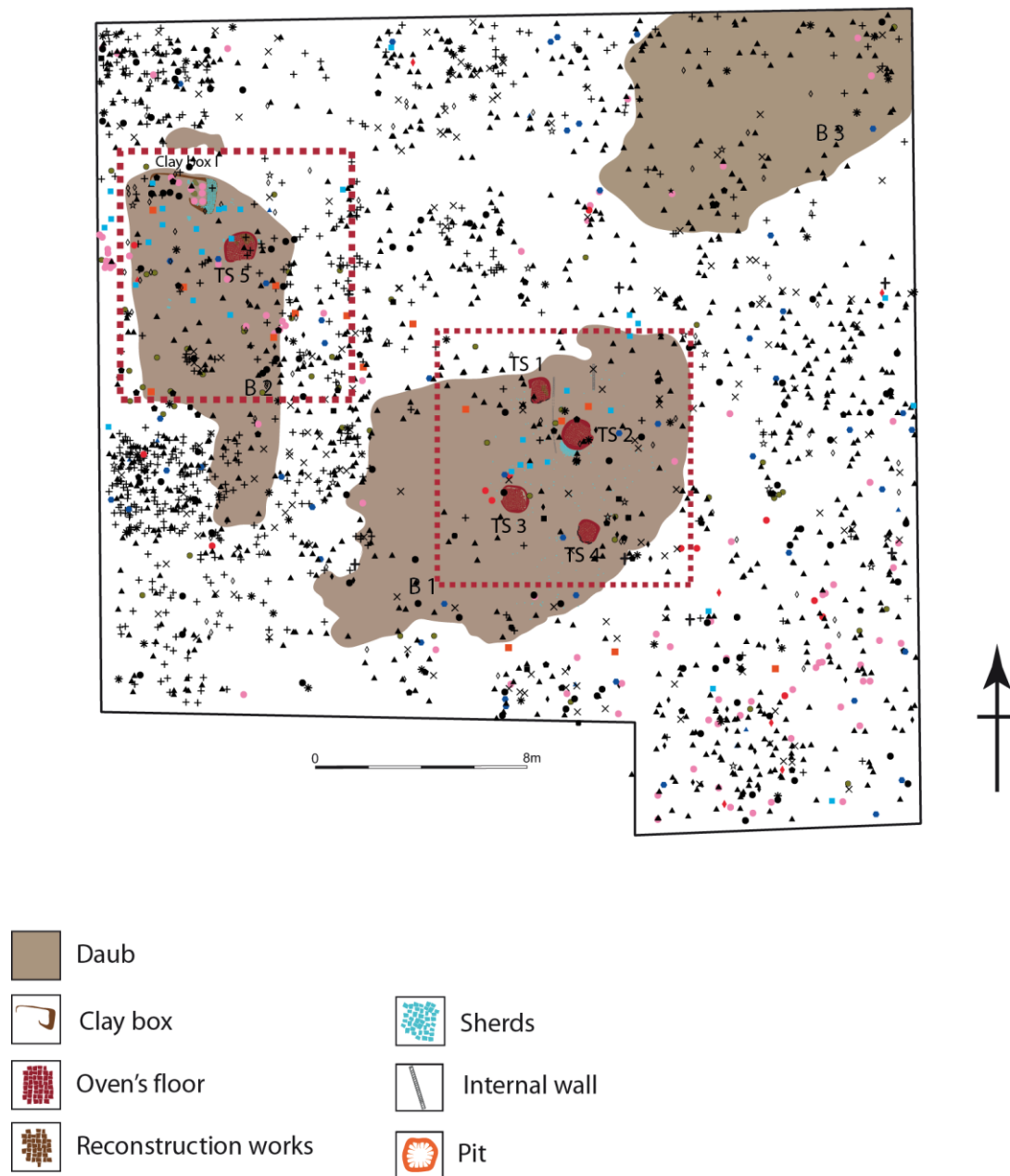
Western Sector: 760 sq.m. excavated area.



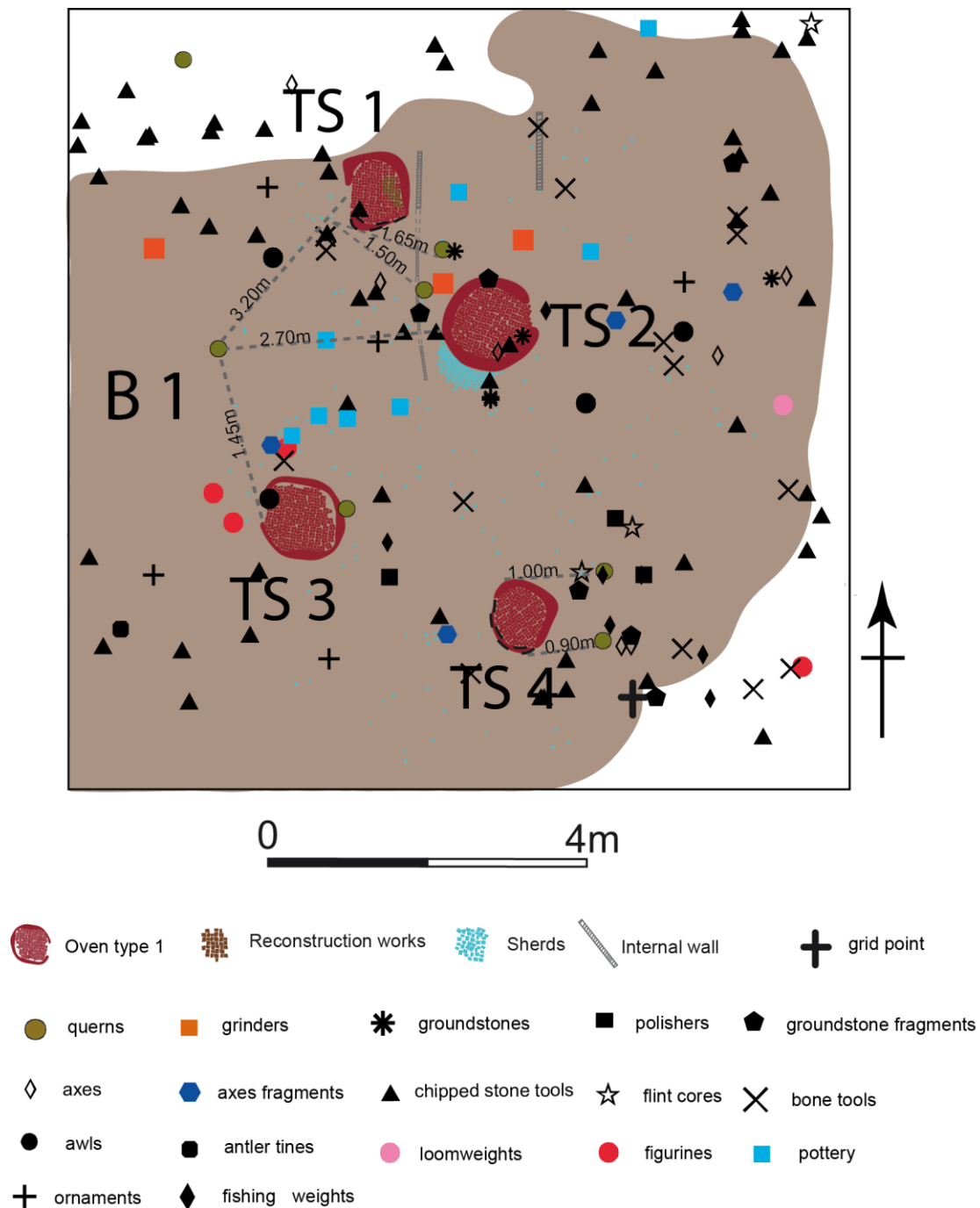


**Plan 6. 11** Distribution of all five categories of finds at Dispilio, Phase A: the red-dotted boxes mark the areas of small-scale spatial and contextual analysis.

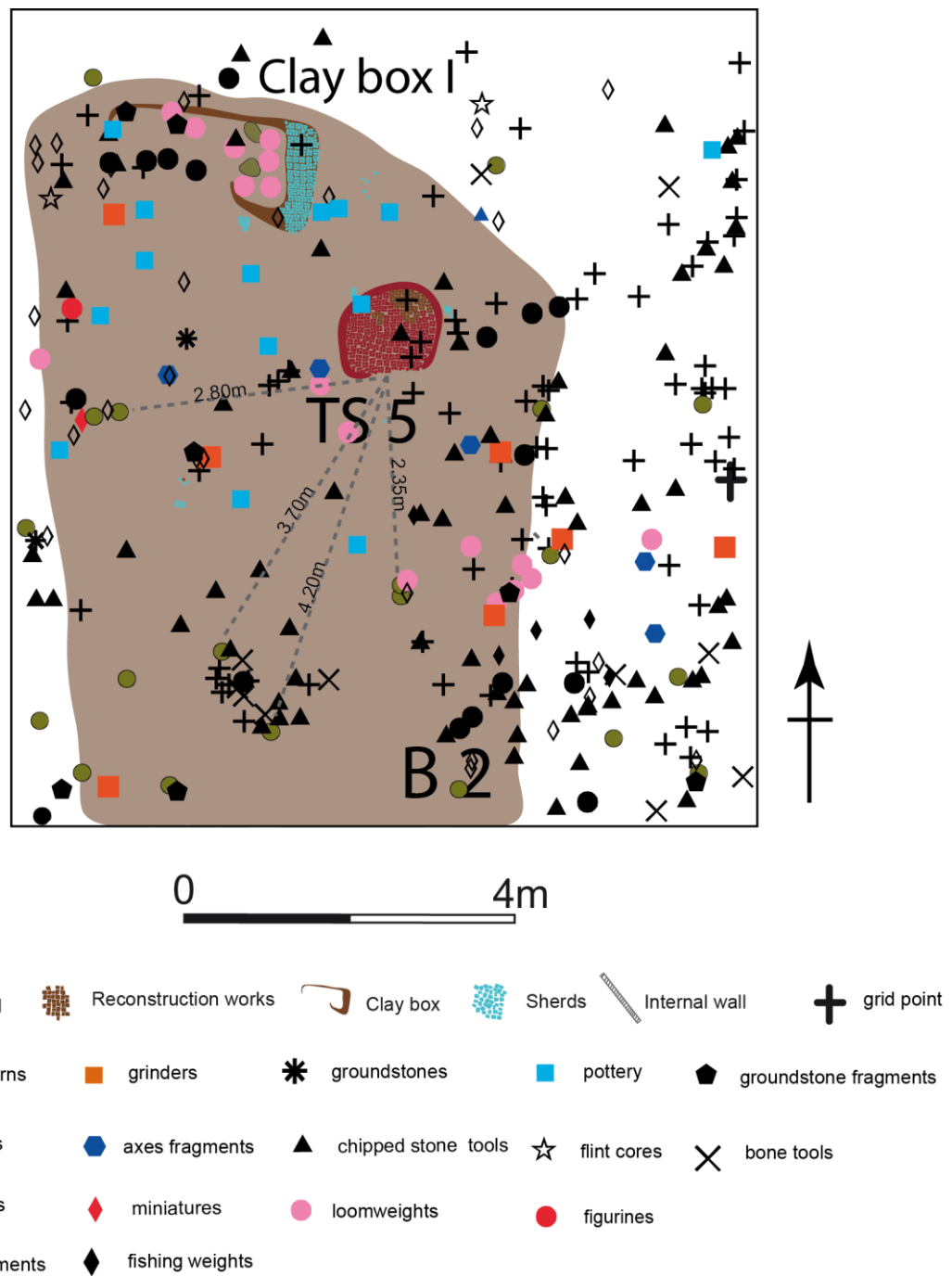
Western Sector: 760 sq.m. excavated area.



**Plan 6. 12** Building 1: small-scale plan that shows the distribution of finds in the kitchen spaces of TS 1, TS 2, TS 3 and TS 4.



**Plan 6. 13** Building 2: small-scale plan that shows the distribution of finds at the area of TS 5 and Clay Box I.



**Table 3. 1** Chronology and phases for the Greek Neolithic and the sites discussed in the text.

Period	Date (cal. BC)	Western Macedonia	Central Macedonia	Eastern Macedonia	Western Thrace	Thessaly	Central Greece & Peloponnese	Aegean Islands
Final Neolithic (FN)	<b>3200</b>						Kitsos Cave IV	
	3300						Nea Makri	Kephala
	3400							
	3500			Sitagroi III,				Poliochni I
	3600	Mandalo II		Dikili Tash II, Promachonas- Topolnica IV				
	3700							
	3800					Rachmani		Emporio VI-VII, Pyrgos Phaistos
	3900						Diros	
	4000							
	4100							
Late Neolithic (LN )	4200							
	4300						Ayios Dimitrios	
	4400	Megalo Nisi Galanis	Olynthos					
	<b>4500</b>	Nea Nikomedeia	Makriyalos II	Promachonas- Topolnica III		Palioskala, Pefkakia	Kitsos Cave III	Strofilas
	4600	Mandalo I,		Sitagroi II	Paradeisos	Dimini	Gonia, Corycian Cave	
	4700				Paradimi IV	Otzaki	Diros	Koukounaries, Zas Cave, Grotta, Saliagos, Emporio VIII
	<b>4800</b>					Ayia Sophia, Mandra, Pefkakia	Alepotrypa Cave, Nea Makri	Knossos I-II
	4900				Paradimi III			
	5000		Stavroupoli II,	Promachonas-		Arapi, Galene	Kitsos Cave II	Saliagos, Emporio

Middle Neolithic (MN)	5100	Megalo Nisi Galanis	Thermi III, Makriyalos I Vasilika	Topolnica I-II,	Makri II	Tsangli-Larisa	Elateia	IX-X, Ayio Galas II, Knossos III
	5200		Stavroupoli I, Thermi II,	Dikili Tash I, , Sitagroi I				Knossos IV, Skoteini Cave Limenaria
	<b>5300</b>		Servia 6-7					
	5400	Servia 1-5	I.F.Th., Thermi I,		Paradimi I-II Makri I	Makrychori I Platia Magoula Zarkou	Nea Makri	
	5500						Chaeronea	Ayio Gala I, Ayios Petros, Knossos V- VII
	5600							
	5700							
	<b>5800</b>					Achilleion IV Sesklo I-III	Lerna II Lerna I	
	5900	Servia-Varytimides						
	6000					Pre-Sesklo,, Achilleion III		
Early Neolithic (EN)	6100							Ayios Petros
	6200							Knossos VIII-IX
	6300	Nea Nikomedeia	Yiannitsa B			Proto-Sesklo Achilleion I-II	Franchthi	
	6400							Cyclops Cave Youra
	<b>6500</b>							
	6600					Prodromos	Elateia	
	6700	Aceramic						
	<b>6800</b>					Argissa	Franchthi	Cyclops Cave Youra, Knossos X
	6900							
	7000							



**Table 4. 1** Main identification criteria of thermal structures, examples of classified and rejected features from Avgi and Dispilio.

ID	Preserved outline	Preserved raw materials	Ashes, charcoal, smoke	Groundstone tools	Type	Reliability
	clear = 20%	clay and/or pebbles = 20%	√ = 20%	√ = 20%	oven 1a = 20% oven 1b = 20% hearth 2a = 20% hearth 2b = 20%	100%
	unclear = 0%	missing = 0%	× = 0%	× = 0%	nondescript 3 = 0%	>50%
<i>e.g.</i>	Avgi NL site					
TS 1	clear	clay	√	√	oven 1a	100%
TS 19	unclear	clay	√	×	hearth 2b	60%
TS 20	unclear	missing	√	√	nondescript 3	40%
TS 26	clear	clay	√	√	nondescript 3	80%
<i>e.g.</i>	Dispilio NL site					
TS 1	clear	clay & pebbles	√	√	oven 1a	100%
TS 3	clear	clay	√	√	oven 1a	100%
TS 6	unclear	randomly unearthed within the trench	√	×	nondescript 3	20%

**Table 4. 2** Raw materials, construction techniques and functional properties of the ovens type 1a and type 1b.

Type	Position to the ground	Outline/shape	Preserved raw materials	Construction techniques	Preserved Reconstruction works	Functional properties
Oven type 1a						
	Subterranean	Uninterrupted	Clay tempered with roughly powdered gravel and weak organic mixture (straw and splint)	Shallow pit in the ground, flatten floor surface, side-walls coated with finer clay,	Identifiable (>3 plaster layers)	Baking (indirect dry heat)
		roofed chamber		successive coil layers for the vault		Roast (indirect wet heat)
		Ellipsoid				Boiling (direct using pot and indirect using baskets or skins)
		Semicircular		Flattened surface floor on the ground, side-walls coated with finer clay, successive coil layers for vault		
	Above the ground	Circular				Grilling (direct heat)
						Parching (direct and indirect heat)
Oven type 1b						
	subterranean	Perforated Roofed chamber	Clay tempered with roughly powdered gravel and weak organic mixture (straw and splint) clay	Shallow pit in the ground, Flattened floor surface, side-walls coated with finer clay, successive coil layers for the vault	Identifiable (>3 plaster layers)	Boiling (direct using pot on top of the perforated vault)
		Semicircular				Smoking (meat or fish)
		Ellipsoid				Parching (direct and indirect heat)

**Table 4. 3** Raw materials, construction techniques and functional properties of hearths type 2a and type 2b.

Type	Position to the ground	Outline/shape	Preserved raw materials	Construction techniques	Preserved Reconstruction works	Functional properties
Hearth type 2a						
	Above the ground	Irregular	Round river pebbles and finely sieved, thick, heavy clay without organic mixtures	Pebbles placed in clay basin or directly on the ground, covered with a clay layer, smoothed on surface	Identifiable (>3 plaster layers)	Grilling (direct heat)
		Circular		Flattened surface floor on the ground, side-walls coated with finer clay, successive coil layers for vault		Boiling (direct using pot and indirect using baskets or skins)
Hearth type 2b						Parching (direct and indirect heat) Smoking (of meat or fish)
	Above the ground	Irregular	Mat surfaces of roughly sieved clay, with organic mixtures (straw and splint)	Clay floors directly constructed on top of the ground		Smoking (meat and fish)
		ellipsoid				

**Table 4. 4** Main categories of portable finds in Avgi, Phase I and II.

Main Categories	Chipped stone Industry	Groundstone Industry	Bone tools	Miscellaneous
	blades	axes	awls	ornaments
	chipped stone tools	axe fragments	bone tools	chisels
	flint cores	groundstones	antler tines	clay objects
	projectile points	groundstone fragments		figurines
	quartz tools	grinders		loom-weights
		maceheads		miniature vessels
		polishers		round sherds
		querns		seals
				stone objects
				whistler
				worked shells

**Table 4. 5** Main categories of portable finds unearthed at the Western Sector in Dispilio, Phase A.

Main Categories	Chipped stone Industry	Groundstone Industry	Bone tools	Miscellaneous	Pottery
	chipped stone tools	axes	awls	ornaments	pots
	Flint cores	axe fragments	bone tools	clay objects	
	projectile points	groundstones	antler tines	figurines	
	quartz tools	groundstone fragments	fish-hooks	loom-weights	
		grinders		miniatures	
		polishers		round sherds	
		querns		stone objects	
				fishing weights	

**Table 5. 1** Calibrated  $^{14}\text{C}$  samples of the years 2002 to 2008 from Avgi Neolithic site, Kastoria, North-western Greece.

Lab Code	Description of dated material	Trench	Source	Layer	Area	Radiocarbon ages (yr. B.P.)	Calibrated ages B.C.	Phase	Liability of sample	Sampling year
LIH-623	?	trial trench	?	?	?	6509 $\pm$ 79 yr BP	5540-5380 cal BC: 1 $\sigma$ * 5620-5320 cal BC: 2 $\sigma$ **	?	low	2002
GrN-28445	?	254.1	Building 2a?	?	Western	6660 $\pm$ 40 yr BP	5206-4997 cal BC: 1 $\sigma$ 5656-5511 cal BC: 2 $\sigma$	Avgi I	low	2003
GrN-28447	wood	284.3	outdoor layer	2	Area 5+2	6130 $\pm$ 40 yr BP	5206-4997 cal BC: 1 $\sigma$ 5211-4961 cal BC: 2 $\sigma$	Avgi I	high	2003
GrN-28446	?	282.2	old grid	unstratified	Western	6340 $\pm$ 50 yr BP	5370-5320 cal BC: 1 $\sigma$ 5470-5220 cal BC: 2 $\sigma$	?	low	2003
GrN-29855	wood	139.2	building post	3	Building 1(a?)	6310 $\pm$ 35 yr BP	5321-5225 cal BC: 1 $\sigma$ 5321-5226 cal BC: 2 $\sigma$	Avgi I	high	2005
GrN-29856	wood	139.2	building silt	3	Building 1(b?)	6340 $\pm$ 30 yr BP	5363-5302 cal BC: 1 $\sigma$ 5461-5222 cal BC: 2 $\sigma$	Avgi I	high	2005
GrN-29857	wood	224.3	Building 2a	3	Area 2	6340 $\pm$ 90 yr BP	5480-5330 cal BC: 1 $\sigma$ 5550-5220 cal BC: 2 $\sigma$	Avgi I	high	2005
GrN-29858	wood	254.1	Building 2a	3	Area 2	6320 $\pm$ 30 yr BP	5325-5227 cal BC: 1 $\sigma$ 5359-5222 cal BC: 2 $\sigma$	Avgi I	high	2005
GrA-30214	wood	253.2-223.4	pit	filling	Area 2	5925 $\pm$ 40 yr BP	4840-4728 cal BC: 1 $\sigma$ 4927-4711 cal BC: 2 $\sigma$	Avgi III	high	2005
GrN-30682	wood	281.4-282.3	building silt	3	Building 5	6220 $\pm$ 25 yr BP	5285-5077 cal BC: 1 $\sigma$ 5296-5069 cal BC: 2 $\sigma$	Avgi I	high	2006
GrN-30683	wood	284.1	outdoor layer	3	Area 5+2	5710 $\pm$ 70 yr BP	4670-4460 cal BC: 1 $\sigma$ 4720-4370 cal BC: 2 $\sigma$	Avgi III	high	2006
GrN-30684	wood	283.3	outdoor layer	3	Area 5	6210 $\pm$ 80 yr BP	5300-5060 cal BC: 1 $\sigma$ 5340-4950 cal BC: 2 $\sigma$	Avgi I	high	2006










**Table 5. 1** Classified thermal structures in Aygi based on the identification criteria in Chapter 4.




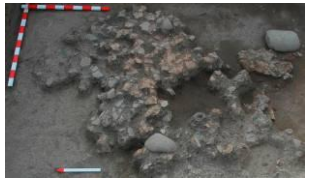

ID	Preserved outline	Preserved raw materials	Ashes, charcoal, smoke	Groundstone tools	Type	Reliability
TS 1	clear	clay	√	√	oven 1a	100%
TS 2	clear	clay	√	√	oven 1b	100%
TS 3	clear	clay	√	×	oven 1a	100%
TS 5	unclear	clay & pebbles	√	√	hearth 2a	80%
TS 6	unclear	pebbles	√	√	hearth 2a	80%
TS 7	clear	clay	√	√	oven 1a	100%
TS 8	clear	clay	√	√	oven 1b	100%
TS 9	clear	clay	√	√	oven 1a	100%
TS 10	clear	clay	√	√	hearth 2b	100%
TS 11	unclear	clay	√	√	hearth 2b	80%
TS 12	unclear	clay	√	√	hearth 2b	80%
TS 13	clear	clay	?	√	oven 1a	80%
TS 14	clear	clay	√	?	oven 1a	80%
TS 15	clear	clay	√	√	oven 1a	100%






TS 16	clear	clay	√	√	oven 1b	100%
TS 17	clear	clay	√	√	hearth 2b	100%
TS 18	unclear	clay & pebbles?	?	√	hearth 2b	60%
TS 19	unclear	clay	√	×	hearth 2b	60%
TS 22	clear	clay & pebbles	√	×	hearth 2a	80%
TS 23	unclear	pebbles	√	√	hearth 2a	80%
TS 24	clear	clay & pebbles	√	√	hearth 2a	100%
TS 25	clear	clay	√	√	oven 1a	100%
TS 26	clear	clay	√	√	nondescript 3	80%
TS 27	unclear	clay	√	√	hearth 2b	80%
TS 28	unclear	clay	√	√	hearth 2b	80%

**Table 5.3** List of the 25 thermal structures, unearthed in the Neolithic site of Avgi by the year 2008.





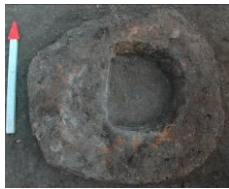
ID	Type	Cultural horizon	Structural elements	Measurements	Orientation (where available)	Picture	Preservation	Suggested associations with other features
TS 1	oven type 1a	Avgi II	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above ground</li> </ul>	length: ? width: ? height: 0.06 m	W-E		good	TS 2, TS 3
TS 2	oven type 1b	Avgi II	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ subterranean</li> </ul>	length: 1.00 m width: 0.55 m hole: ø 0.30 m	N-S		very good	TS 1, TS 3
TS 3	oven type 1a	Avgi II	<ul style="list-style-type: none"> <li>➤ ellipsoid</li> <li>➤ above ground</li> </ul>	length: 0.55 m width: 0.35 m	N-S		good	TS1, TS 2

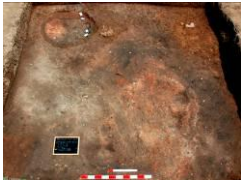

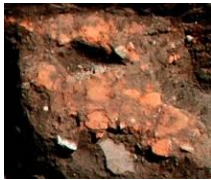
TS 5	hearth type 2a	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved ø 1,54 m	—		poor	TS12
TS 6	hearth type 2a	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max. preserved ø 0.60 m	—		poor	—
TS 7	oven type 1a	Avgi I	<ul style="list-style-type: none"> <li>➤ ellipsoid</li> <li>➤ above ground</li> </ul>	length: 0.95 m width: 0.60 m height: 0.15 m	SW-NE		good	—
TS 8	oven type 1b	Avgi I	<ul style="list-style-type: none"> <li>➤ ellipsoid</li> <li>➤ subterranean</li> </ul>	length: 0.61 m width: 0.41 m height: 0.10 m	N-S		very good	TS 9, TS 10

TS 9	oven type 1a	Avgi I	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ subterranean</li> </ul>	length: 0.45 m width: 0.35 m height: 0.10 m	N-S		good	TS 8, TS 10
TS 10	hearth type 2b	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved ø 0.50 m height: 0.09 m.	—		poor	TS 8, TS 9
TS 11	hearth type 2b	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max. preserved ø 3.00 m height: 0.10 m.	E-W		good	TS 25, T 27
TS 12	hearth type 2b	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved ø 1.90 m	—		good	TS 5, TS 28
TS 13	oven type 1a	Avgi II	<ul style="list-style-type: none"> <li>➤ circular</li> <li>➤ above ground</li> </ul>	length: 0.50 m width: 0.40 m	N-S		good	—

TS 14	oven type 1a	Avgi I	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above ground</li> </ul>	length: 0.97m width: 0.35 m. height: 0.07 m. (partially excavated)	N-S		poor	—
TS 15	oven type 1a	Avgi I	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above ground</li> </ul>	length: 0.81 m width: 0.57 m	E-W		poor	—
TS 16	oven type1b	Avgi II	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ subterranean</li> </ul>	length: 0.60 m width: 0.47 m	SE-NW		good	—
TS 17	hearth type 2b	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved ø 1.35 m	—		very good	TS 24
TS 18	hearth type 2b	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max. preserved scatter 1.95 m	—		poor	—



TS 19	hearth type 2b	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max. preserved scatter 1.54 m	—		poor	—
TS 22	hearth type 2a	Avgi I	<ul style="list-style-type: none"> <li>➤ circular</li> <li>➤ above ground</li> </ul>	max.preserved ø 0.70 m  height: 0.15 m	—		poor	—
TS 23	hearth type 2a	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved ø 1.23 m	—		poor	—
TS 24	hearth type 2a	Avgi I	<ul style="list-style-type: none"> <li>➤ circular</li> <li>➤ above ground</li> </ul>	max. preserved ø 0.80 m	—		poor	TS 17
TS 25	oven type 1a	Avgi I	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above ground</li> </ul>	length: 0.60 m  width: 0.50 m	E-W		poor	TS 11, TS 27

TS 26	nondescript type 3	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	S-E feature max. preserved ø 2.50 m N-E feature max. preserved ø 0.95 m	—		good	TS 25, TS 27
TS 27	hearth type 2b	Avgi I	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max.preserved length 2.84 m (partially unearthed)	—		poor	TS 11, TS 25
TS 28	hearth type 2b	Avgi II	<ul style="list-style-type: none"> <li>➤ irregular</li> <li>➤ above ground</li> </ul>	max. preserved length ø 0.76 m (partially unearthed)	—		poor	TS 12

**Table 5. 4** Raw materials, construction techniques and functional properties of the ovens type 1a and type 1b.

ID	Type	Position to the ground	Outline/shape	Preserved raw materials	Construction techniques	Preserved Reconstruction works	Functional properties
Oven type 1a:							
TS 3	oven 1a	subterranean	ellipsoid	Clay tempered with roughly powdered gravel and weak organic mixture (straw and splint)	Shallow pit in the ground, flatten floor surface, side-walls coated with finer clay, successive coil layers for the vault	Unidentifiable	Baking (indirect dry heat)
TS 9	oven 1a	subterranean	semicircular				Roast (indirect wet heat)
TS 1	oven 1a	above the ground	semicircular		Flattened surface floor on the ground, side-walls coated with finer clay, successive coil layers for vault		Boiling (direct using pot and indirect using baskets or skins)
TS 7	oven 1a	above the ground	ellipsoid				Grilling (direct heat)
TS 13	oven 1a	above the ground	circular				
TS 14	oven 1a	above the ground	semicircular				
TS 15	oven 1a	above the ground	semicircular				
TS 25	oven 1a	above the ground	semicircular				
Ovens type 1b:							
TS 2	oven 1b	subterranean	semicircular	Clay tempered with roughly powdered gravel an weak organic mixture (straw and splint) clay	Shallow pit in the ground,	Identifiable (>3 plaster layers)	Boiling (direct using pot on top of the perforated vault)
TS 8	oven 1b	subterranean	ellipsoid		Flattened floor surface, side-walls coated with	Unidentifiable	
TS 16	oven 1b	subterranean	semicircular		finer clay, successive coil	Identifiable (>1 plaster layer)	Parching (direct

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layers for the  
vault

---

and indirect heat

**Table 5. 5** Raw materials, construction techniques and functional properties of hearths type 2a and type 2b.

ID	Type	Position to the ground	Outline/Shape	Preserved raw materials	Construction techniques	Reconstruction works	Functional properties	
Hearth type 2a:								
TS 5	hearth 2a	above the ground	irregular	Round river pebbles and finely sieved, thick, heavy clay without organic mixtures	Pebbles placed in clay basin or directly on the ground, covered with a clay layer, smoothed on surface	Unidentifiable	Grilling (direct heat)  Boiling (direct using pot and indirect using baskets or skins)	
TS 6	hearth 2a	above the ground	irregular					
TS 22	hearth 2a	above the ground	circular					
TS 23	hearth 2a	above the ground	irregular					
TS 24	hearth 2a	above the ground	circular					
TS 10	hearth 2b	above the ground	irregular	Mat surfaces of roughly sieved clay, with organic mixtures (straw and splint)	Clay floors directly constructed on top of the ground	TS 17: identifiable (>2 overlapping floors)	Parching (direct and indirect heat) Smoking (of meat or fish)  Smoking (meat and fish)	
TS 12	hearth 2b	above the ground	irregular					
TS 17	hearth 2b	above the ground	irregular					
TS 18	hearth 2b	above the ground	irregular			Unidentifiable		
TS 19	hearth 2b	above the ground	irregular					
TS 27	hearth 2b	above the ground	irregular					
TS 28	hearth 2b	above the ground	irregular					

**Table 5. 6** Suggested spatio-temporal association between Buildings and Thermal Structures at Avgi I.

<b>Building</b>	<b>Estimated size (GIS measurements)</b>	<b>Cultural horizon</b>	<b>TS inside buildings</b>	<b>TS in the open-air spaces</b>	<b>C14 sample from the building</b>	<b>Calibrated years (in cal BC)</b>
Building 5	64 m <sup>2</sup>	Avgi I	none	TS 8, TS 9, TS 10	GrN-30682	5285-5077 cal BC 5296-5069 cal BC
Building 2a	57 m <sup>2</sup>	Avgi I	none	TS 14, TS 15	GrN-29858	5325-5225 cal BC 5359-5222 cal BC
Building 3	35 m <sup>2</sup>	Avgi I	none	TS 22	—	—
Building 1	112 m <sup>2</sup>	Avgi I	none	TS 17, TS 23, TS 24	GrN-29855	5321-5325 cal BC 5321-5226 cal BC
Building 7	60 m <sup>2</sup>	Avgi I	none	TS 17	—	—



**Table 5. 7** Main categories of portable finds at Avgi I.

<b>Main Categories</b>	<b>Chipped stone Industry</b>	<b>Groundstone Industry</b>	<b>Bone tools</b>	<b>Miscellaneous</b>
	blades: 206 (7%)	axes: 23 (1%)	awls: 39 (1%)	ornaments: 41 (2%)
	chipped stone tools: 942 (31%)	axe fragments: 65 (2%)	bone tools: 75 (2%)	chisels: 1 (0%)
	flint cores: 7 (0%)	groundstones: 721 (24%)	antler tines: 2 (0%)	clay objects: 18 (1%)
	projectile points: 6 (0%)	groundstone fragments: 187 (6%)		figurines: 17 (1%)
	quartz tools: 27 (1%)	grinders: 27 (1%)		loom-weights: 4 (0%)
		mace-heads: 3 (0%)		miniature vessels: 20 (1%)
		polishers: 18 (1%)		round sherds: 9 (0%)
		querns: 57 (2%)		seals: 1 (0%)
				stone vessels: 3 (0%)
				whistler: 1 (0%)
<b>SUM</b>	<b>1188 (39%)</b>	<b>1101 (37 %)</b>	<b>116 (3%)</b>	<b>115 (5%)</b>

**Table 5. 8** Quantitative and spatial distribution of portable finds in Avgi I.

Description	B1 inner	B5 inner	B 7 inner	B2a inner	B3 inner	Total inner	Open-air	Overall finds	Overall %
Antler tines	0	0	0	0	0	0	2	2	0%
Awls	1	0	0	0	1	2	37	39	1%
Axes	4	0	0	0	0	4	19	23	1%
Axe fragments	3	1	0	1	0	5	60	65	2%
Ornaments	0	1	0	0	1	2	39	41	2%
Blades	0	2	3	0	3	7	199	206	7%
Bone tools	1	1	2	1	0	5	70	75	2%
Chipped stone tools	29	2	8	2	11	52	889	941	31%
Chisels	0	0	0	0	0	0	1	1	0%
Clay object	0	0	0	0	0	0	18	18	1%
Flint Cores	0	0	0	0	0	0	7	7	0%
Figurines	0	0	0	0	0	0	17	17	1%
Groundstone fragments	17	5	5	1	5	33	154	187	6%
Groundstones	3	1	1	0	0	5	716	721	24%
Grinders	0	3	0	1	0	4	24	27	1%
Loom-weights	0	0	0	0	0	0	4	4	0%
Mace heads	0	0	0	0	0	0	3	3	0%
Miniature vessels	0	0	1	0	0	1	19	20	1%
Pebbles	6	2	13	2	5	28	455	483	16%
Pebble agglomerations	0	0	0	0	0	0	3	3	0%
Polishers	0	0	1	0	0	1	17	18	1%

Projectile points	0	0	0	0	0	0	6	6	0%
Quartz tools	0	0	0	0	0	0	27	27	1%
Querns	2	2	1	0	0	5	52	57	2%
Round sherds	0	0	1	0	0	1	8	9	0%
Seals	0	0	0	0	0	0	1	1	0%
Stone vessels fragments	0	0	0	0	0	0	3	3	0%
Whistlers	0	0	0	0	0	0	1	1	0%
<b>SUM</b>	<b>66</b>	<b>20</b>	<b>36</b>	<b>8</b>	<b>25</b>	<b>154</b>	<b>2852</b>	<b>3006</b>	<b>100%</b>

**Table 5. 15** Main categories of portable finds at Avgi II.

Main Categories	Chipped stone Industry	Groundstone Industry	Bone tools	Miscellaneous
	blades: 126 (12%)	axes: 12 (1%)	awls: 26 (3%)	ornaments: 15 (1%)
	chipped stone tools: 323 (32%)	axe fragments: 16 (2%)	bone tools: 39 (4%)	chisels: 1 (0%)
	flint cores: 4 (0%)	groundstones: 105 (10%)	antler tines: 0 (0%)	clay objects: 10 (1%)
	projectile points: 4 (0%)	groundstone fragments: 142 (14%)		figurines: 6 (1%)
	quartz tools: 11 (1%)	grinders: 18 (2%)		loom-weights: 0 (0%)
		maceheads: 1 (0%)		miniature vessels: 4 (0%)
		polishers: 12 (1%)		round sherds: 15 (1%)
		querns: 26 (3%)		seal: 2 (0%)
				stone vessels: 1 (0%)
				whistler: 0 (0%)
				worked shells: 1 (0%)
<b>SUM</b>	<b>468 (45%)</b>	<b>332 (33 %)</b>	<b>65 (7%)</b>	<b>53 (4%)</b>

**Table 5. 16** Quantitative distribution of each category of portable finds unearthed at Avgi II.

Description	Overall finds	Overall %	Description	Overall finds	Overall %
Antler tines	0	0%	Loom-weights	0	0%
Axe s	12	1%	Mace heads	1	0%
Axe fragments	16	2%	Miniature vessels	4	0%
Ornaments	15	1%	Pebbles	88	9%
Blades	126	12%	Pebble agglomeration	0	0%
Bone tools	39	4%	Polishers	12	1%
Chipped stone tools	323	32%	Quartz tools	11	1%
Chisels	1	0%	Querns	26	3%
Clay objects	10	1%	Round sherds	15	1%
Flint cores	4	0%	Seals	2	0%
Figurines	6	1%	Stone vessels fragments	1	0%
Groundstone fragments	142	14%	Whistler	0	0%
Groundstones	105	10%	Worked shell	1	0%
Grinders	18	2%			
			<b>SUM</b>	<b>1010</b>	<b>100%</b>

**Table 6. 1** Radiocarbon samples and ages from Dispilio from the years 1992 to 2011 (modified by Table II, Karkanas *et al.* 2011, 105)

Lab Code	Description of dated material	Location and depth of sample (cm)	Area	Radiocarbon ages (yr. B.P.)	Calibrated ages B.C.
RTT-5035	Charcoal, <i>Quercus</i> type deciduous	Core DSG1, 140-170	South-west area	3720 ± 45	2120 ± 75
LTL-1085A	Charcoal, <i>Quercus</i> type deciduous	Core DSG1, 140-170	South-west area	3773 ± 55	2200 ± 90
LTL-1519A	Charcoal, <i>Moloidae</i>	Core DSG1, 140-170	South-west area	3828 ± 55	2300 ± 100
RTT-5031	Charcoal, <i>Fraxinus</i> sp.	Square 55a east, 45	West sector	4860 ± 45	3640 ± 60
RTT-5032	Charcoal	Core DSG2, 45-66	South sector	5125 ± 50	3900 ± 70
RTT-5034	Charcoal, <i>Quercus</i> type deciduous	Core DSG4, 175	North-east sector	5180 ± 60	3990 ± 70
LTL-1084A	Charcoal, <i>Fraxinus</i> sp.	Square 55a east, 45	West sector	5253 ± 55	4100 ± 90
RTT-5033	Charcoal, <i>Quercus</i> type deciduous	Core DSG2, 82-105	South sector	5395 ± 45	4250 ± 70
LTL-1086A	Wood, <i>Pinus</i> type nigra	Core DSG5, 205	North-west area	5774 ± 60	4630 ± 70
GrN-30956	Charcoal	Square 59β, 80	West Sector	6040 ± 30	4940 ± 50
LTL-1520A	Charcoal, <i>Quercus</i> type deciduous	Core DSG2, 145-161	South sector	6133 ± 65	5090 ± 100
GrN-30963	Charcoal	Square 59a, 55-60	West Sector	6200 ± 50	5160 ± 80
GrN-30961	Charcoal	Square 139γ, 76	West Sector	6210 ± 80	5160 ± 110
RRT-5037	Charcoal, <i>Quercus</i> type deciduous	Core DSG1, 221	South-west area	6220 ± 60	5180 ± 90
RTT-5038	Charcoal, <i>Quercus</i> type deciduous	Core DSG1, 224	South-west area	6220 ± 50	5180 ± 90
DEM-656*	Wood ,outer ring of upright pile	Square 8a, 167	East Sector	6269 ± 29	5260 ± 30
RTT-5036	Charcoal, <i>Quercus</i> type deciduous	Core DSG1, 201-204	South-west area	6270 ± 50	5240 ± 60






<b>GrN-30958</b>	Charcoal	Square 8δ, 182	East sector	6300 ± 25	5270 ± 40
<b>DEM-657*</b>	Wood ,outer ring of upright pile	Square 2δ, 174	East sector	6338 ± 29	5320 ± 30
<b>GrN-30960</b>	Charcoal	Square 4a, 217	East sector	6360 ± 50	5360 ± 60
<b>RTT-5039</b>	Charcoal of 4-5 year old branch	Core DSG5, 275	North-west area	6380 ± 50	5380 ± 60
<b>GrN-31012</b>	Charcoal	Square D8δ, 210	East sector	6385 ± 15	5360 ± 30
<b>GrN-30959</b>	Charcoal	Square 8δ, 210	East sector	6400 ± 15	5400 ± 50



Radiocarbon ages were calibrated using CalPal 2007 (Weninger & Jöris 2004). Those ages marked with an asterisk were originally published in Facorellis & Maniatis (2002).

**Table 6. 2** Classified thermal structures in Dispilio based on the identification criteria in Chapter 4.

ID	Preserved outline	Preserved raw materials	Ashes, charcoal, smoke	Groundstone tools	Type	Reliability
TS 1	clear	clay & pebbles	√	√	oven 1a	100%
TS 2	clear	clay	√	√	oven 1a	100%
TS 3	clear	clay	√	√	oven 1a	100%
TS 4	unclear	clay & pebbles	√	√	oven 1a	100%
TS 5	clear	clay	√	√	oven 1a	100%

**Table 6. 3** List of the five thermal structures, unearthed at the Western Sector of Dispilio Neolithic site by the years 1999 to 2008.

ID	Type	Cultural horizon	Structural elements	Measurements	Orientation	Picture	Preservation	Suggested associations with other features
TS 1	oven type 1a	Dispilio Phase A	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above the ground</li> <li>➤ reconstruction works: 2 successive floor layers</li> </ul>	length: 1.00 m width: 0.90 m	W - E  front-loaded entrance opening: 0.90 m		very poor	TS 2, TS 3, TS 4
TS 2	oven type 1a	Dispilio Phase A	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above the ground</li> </ul>	length: 1.00 m width: 0.88 m preserved brim: 0.05 m	E - W  front-loaded entrance opening: 0.68 m		good	TS 1, TS 3, TS 4
TS 3	oven type 1a	Dispilio Phase A	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above the ground</li> </ul>	length: 0.96 m width: 0.85 m preserved brim: 0.10 m	E - W  front-loaded entrance opening: 0.44 m		good	TS 1, TS 2, TS 4

TS 4	oven type 1a	Dispilio Phase A	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above the ground</li> </ul>	length: 1.10 m width: 1.00 m preserved brim: 0.06 m	W - E front-loaded entrance opening: 0.45 m		poor	TS 1, TS 2, TS 3
TS 5	oven type 1a	Dispilio Phase A	<ul style="list-style-type: none"> <li>➤ semicircular</li> <li>➤ above the ground</li> <li>➤ reconstruction works: 2 successive floor layers</li> </ul>	length: 1.20 m width: 0.80 m preserved brim: 0.06 m	E - W front-loaded entrance opening: 0.67 m		good	Clay box with loom- weights

**Table 6. 4** Raw materials, construction techniques and functional properties of the type 1a ovens at Dispilio.

ID	Type	Position to the ground	Outline/shape	Preserved raw materials	Construction techniques	Preserved Reconstruction works	Functional properties
<b>Oven type 1a:</b>							
TS 1	oven 1a	above the ground	semicircular	Clay tempered with powdered gravel and weak organic mixture (straw and splint), pebbles	Flatten floor surface, side-walls coated with finer clay, successive coil layers for the vault	2 successive floors	Baking (indirect dry heat)
TS 2	oven 1a	above the ground	semicircular			unidentifiable	Roast (indirect wet heat)
TS 3	oven 1a	above the ground	semicircular			unidentifiable	Boiling (direct using pot and indirect using pots, baskets or skins
TS 4	oven 1a	above the ground	semicircular			unidentifiable	Grilling (direct heat)
TS 5	oven 1a	above the ground	semicircular		Cobbled layer between the subbase and the top floor surface	2 successive floors	Parching (direct and indirect heat)

**Table 6. 5** Suggested spatio-temporal association among Buildings and Thermal Structures at the Western Sector in Dispilio, Phase A.

Building	Estimated size (GIS measurements)	Cultural horizon	TS inside buildings	TS in the open-air spaces	C14 sample from the building	Calibrated years (in cal BC)
Building 1	51 m <sup>2</sup>	Dispilio Phase A	TS 1, TS 2, TS3, TS 4	none	GrN-30963	5160 ± 80 cal BC
					GrN-30956	4940 ± 50 cal BC
Building 2	40 m <sup>2</sup>	Dispilio Phase A	TS 5	none	—	—
Building 3	34 m <sup>2</sup>	Dispilio Phase A	not detected	none	—	—



**Table 6. 6** Main categories of portable finds unearthed at the Western Sector in Dispilio, Phase A.

Main Categories	Chipped stone Industry	Groundstone Industry	Bone tools	Miscellaneous	Pottery
	chipped stone tools: 943 (41%)	axes: 82 (4%)	awls: 92 (4%)	ornaments: 517 (23%)	pots 34 (1%)
	flint cores: 20 (1%)	axe fragments: 48 (2%)	bone tools: 158 (7%)	clay objects: 20 (1%)	
	projectile points: 9 (0%)	groundstones: 52 (2%)	antler tines: 6 (0%)	figurines: 13 (1%)	
	quartz tools: 2 (0%)	groundstone fragments: 42 (2%)	fish-hooks: 3 (0%)	loom-weights: 86 (4%)	
		grinders: 16 (1%)		miniatures: 7 (0%)	
		polishers: 7 (0%)		round sherds: 10 (0%)	
		querns: 53 (2%)		stone objects: 25 (1%)	
				fishing weights 46 (2%)	
<b>SUM:</b>	<b>974 (42%)</b>	<b>300 (13%)</b>	<b>259 (11%)</b>	<b>724 (32%)</b>	<b>34 (1%)</b>

**Table 6. 7** Quantitative and spatial distribution of portable finds at the Western Sector in Dispilio, Phase A.

<b>Description</b>	<b>B1 inner</b>	<b>B2 inner</b>	<b>B3 inner</b>	<b>Total inner</b>	<b>Open-air space</b>	<b>Overall Numerical</b>	<b>Overall %</b>
Antler tines	1	1	0	2	4	6	0%
Awls	12	9	1	22	70	92	4%
Axes	4	17	5	26	56	82	4%
Axe fragments	7	3	1	11	37	48	2%
Bone tools	18	4	6	28	130	158	7%
Chipped stone tools	61	30	72	163	780	943	41%
Clay objects	2	0	1	3	17	20	1%
Flint cores	3	1	1	5	15	20	1%
Figurines	3	1	0	4	9	13	1%
Fish-hooks	0	0	1	1	2	3	0%
Fishing weights	10	1	0	11	35	46	2%
Groundstones	5	1	5	11	41	52	2%
Groundstone fragments	7	5	3	15	27	42	2%
Grinders	4	3	0	7	9	16	1%
Loom-weights	3	5	3	19	67	86	4%
Miniatures	0	1	0	1	6	7	0%
Ornaments	18	30	17	65	452	517	23%
Polishers	4	0	0	4	3	7	0%
Pots	8	13	0	21	13	34	1%
Projectile points	0	1	0	1	8	9	0%
Quartz tools	0	0	0	0	2	2	0%
Querns	7	12	1	20	33	53	2%
Round sherds	0	1	1	2	8	10	0%
Stone objects	1	2	0	3	22	25	1%
<b>SUM</b>	<b>178</b>	<b>141</b>	<b>118</b>	<b>437</b>	<b>1854</b>	<b>2291</b>	<b>100%</b>

**Table 7. 1** Codification of the principal structural and intra-site spatial data of the 30 sites under study in Neolithic Northern Greece.

Site	Location	Periods	Habitation Phases	Settlement Type	Excavation Type	Excavated Area in m <sup>2</sup>	Number of Buildings	Building Types	Open-air Spaces	Number of TS	TS type	TS Location	Context (when given)	Association with Buildings
Arkadikos	Drama, East Macedonia	MN/LN	?	Tell	Rescue	?	>3	Post-framed, Pisé	?/Shelter space with oven	>5	H & O	Inner & Outer	Pit, Cooking pots, Organic remains, Querns	Direct & Indirect
Avgi	Kastoria, West Macedonia	MN, LN	Avgi I	Flat-extended	Systematic	2000 m <sup>2</sup>	>7 free standing	Post-framed	Loose	14	H & O	Outer	Pots, Tools, Organic Remains, Querns	Direct & Indirect
			Avgi II				x	x	?	11	H & O	Outer		?
			Avgi III				>5 free-standing	Foundation trenches	Loose	x	x	x		x
Axos A	Yiannitsa, Central Macedonia	EN	Phase 1	Tell	Rescue	100 m <sup>2</sup>	1	Post-framed	?	x	x	x	x	x
			Phase 2				2	Post-framed	?	x	x	x	x	x
			Phase 3				1	Foundation trenches	?	x	x	x	x	x
		LN	Phase 4				?	?	?	x	x	x	x	x
Yiannitsa B	Yannitsa, Central Macedonia	EN, MN, LN	Phase I, II, III	Tell	Rescue	?	>8	Pit-dwellings, Post-framed, Foundation trenches	?	3	H & O	Inner	?	Direct
Grammi	Pella, Central Macedonia	MN	?	Flat-extended	Rescue	1600 m <sup>2</sup>	>2	Pit-dwellings, Post-framed	Loose	1	O	Outer	?	Indirect
I.F.Th.	Thessaloniki, Central Macedonia	MN	Phase 1	Flat-extended	Rescue	825 m <sup>2</sup>	15	Pit-dwellings	Loose	x	x	x	x	x
Dikili Tash	Kavala, East Macedonia	EN	(1 <sup>st</sup> occupation) (occupation) Phase I	Tell	Systematic	1365 m <sup>2</sup>	x	x	x	x	x	x	x	x
		MN					x	x	x	x	x	x	x	x
		LN I					4	Post-framed	Dense	>22	O, H & K	Inner	Pots, Querns, Organic remains	Direct
		LN II	Phase II				5	Post-framed	Rubbish area, courtyards	4	H & O	Inner & Outer	Clay-coated bucranium, Spindle-whorls	Direct
Dimitra	Serres, East Macedonia	MN/LN	?	Tell	Rescue	32 m <sup>2</sup>	?	?	x	3	H	?	?	?
Dispilio, West Sector	Kastoria, West Macedonia	LN II	Phase A	Lake-side site	Systematic	760 m <sup>2</sup>	2	Post-framed	Loose	5	O	Inner	Pots, Querns, Ornaments, Loom-weights	Direct
Drosia	Edessa, West Macedonia	EN, MN	?	Flat-extended	Rescue	48 m <sup>2</sup>	2	?	?	x	x	x	x	x
Kleitos 1	Kozani, West Macedonia	LN	Phase I/II	Flat-extended	Rescue	20000 m <sup>2</sup>	>10	Wattle-and-daub	Loose/Sheltered spaces	>50	H & O	Inner & Outer	Pots	Direct & Indirect
Kolokynthou	Kastoria, West Macedonia	MN, LN, FN	?	?	Rescue	1000 m <sup>2</sup>	Unspecified	Post-framed & Pisé	Loose	x	x	x	x	x
Lete I	Langadas, Central Macedonia	MN	Phase I/II	Flat-extended	Rescue	117 m <sup>2</sup>	2	Pit-dwellings	Loose	2	H	Inner	Querns, Tools	Direct
Lete III	Langadas, Central Macedonia	MN	?	Flat-extended	Rescue	150 m <sup>2</sup>	1	Pit-dwellings	Loose	1	O	Inner	Pots	Direct
Makri	Alexandroupoli, Thrace	MN, LN	Makri I/II	Tell	Systematic	500 m <sup>2</sup>	Unspecified	Post-framed	?	Unspecified	O, H & P	?	Pots, Organic remains	?
Makriyalos	Pieria, Central Macedonia	LN I	Makriyalos I	Flat-extended	Rescue	60000 m <sup>2</sup>	66	Pit-dwellings, post-framed	Loose	4	O	Inner & Outer	Pots, Organic remains	Direct
		LN II	Makriyalos II						Dense/Pebbled-paved yards	25	O	Inner & Outer	Tools, Organic remains	Direct

Mandalo	Pella, Central Macedonia	LN	?	Tell	Systematic	170 m²	2	Post-framed	Dense	Unspecified	H	Inner	Pots, Tools, Loom-weights	?
Megalo Nisi Galanis	Kozani, West Macedonia	LN	?	Tell	Rescue	32 m²	Unspecified	Pisé	?	1	H (or open K)	?	?	?
Nea Nikomedeia	Imathia, Central Macedonia	EN	Phase 1		Rescue (1961) & Systematic (1963/1964)	1690 m²	24	Square & Rectangular, Post-framed, Foundation trenches						
		EN	Phase 2	Tell					Dense	Unspecified	H & O	Inner & Outer	Organic remains	Direct
		LN	Phase 3											
Olynthos	Halkidiki, Central Macedonia	FN	?	Tell	Systematic	?	4	Stone foundation, sun-dried bricks	x	2	O or K	x	x	
Paliambela	Kolindros, Central Macedonia	MN				?	Unspecified	Ditches, Mud brick constructions	?/Pebbled-paved yards	x	x	x	x	x
		LN	?	Tell & Flat-extended	Systematic	?	Unspecified	Stone walls, Ditches	?	x	x	x	x	x
Paradeisos	Kavala, East Macedonia	LN	?	Tell	Systematic	?	Unspecified	Post-framed	?	1	H	Inner	?	Direct
Paradimi	Komotini, Thrace	MN/LN	Phase I, II, III, IV	Tell	Systematic	?	Unspecified	Post-framed	?	Unspecified	H & O	Outer	?	Direct
Polyplatanos	Imathia, West Macedonia	EN					x	x	x	x	x	x	x	x
		LN	Polyplatanos 1, 2, 3	Tell	Rescue	160 m²	>1	Post-framed, Wattle-and-daub	?	>1	H	Inner	Pots, Loom-weights	Direct
Promachonas-Topolniča	Serres, East Macedonia		Phase I				x	x	Loose	x	x	x	x	x
		LN	Phase II Phase III	Flat-extended	Systematic	844 m²	Unspecified Unspecified	Post-framed Post-framed	Loose Loose/Clay, Stone paved areas	4 Unspecified	H & O H & O	Inner Inner	Pots, 1 stone figurine x	Direct Direct
			Phase IV				>9	Pit-dwellings	?	Unspecified	H & O	Inner	Pots, Querns, Organic remains	Direct
Proskinites	Komotini, Thrace	MN, LN	One phase	Tell	Systematic	32 m²	Unspecified	Post-framed	Storage pits	x	x	x	x	x
Servia-Varytimides	Kozani, West Macedonia	EN					x	x	x	x	x	x	x	x
Servia		MN	Phase 1, 2, 3, 4, 5	Tell	Rescue	?	19	Post-framed	Loose/Yards & exterior roofed spaces	20	H & O	Inner & Outer	Querns	Direct
		LN	Phase 6, 7				9			5	H & O	Inner & Outer	Querns	Direct
Sitagroi	Drama, East Macedonia	LN	Phase I				x	x	?	x	x	x	x	x
		LN	Phase II	Tell	Rescue	?	Unspecified	Post-framed	?	x	x	x	x	x
		FN	Phase III				Unspecified	Post-framed	?	1	H	Outer	Pots, Grinders, Organic remains	?
Stavroupoli	Thessaloniki, Central Macedonia	MN	Stavroupoli Ia				Unspecified	Pit-dwellings	Loose/Stone-paved yard	Unspecified	H, O & K	Inner & Outer	Storage pits	Direct
		Early LN	Stavroupoli Ib	Flat-extended	Rescue	1300 m²	Unspecified	Post-framed, Stone foundations, Pisé (?)	Loose/Stone-paved yard	Unspecified	O	Inner	Storage pits, Storage pots	Direct
		Late LN	Stavroupoli II				Unspecified	Post-framed, Pisé (?)	Dense/Stone-paved yard	Unspecified	H & O	Inner & Outer	Storage pits	Direct
Thermi B	Thessaloniki, Central Macedonia	MN, LN I	Thermi 1, 2, 3	Flat-extended	Rescue	14000 m²	Unspecified	Pit-dwellings, Post-framed (?)	Loose/Stone-paved yard	>2	H	Outer	?	?

Key: H = Hearth, O = Oven, K = Kiln, P = Platform, X = when no TS have been found in the settlement, ? = when the information required is missing by the publications or the reports, Unspecified = when no accurate information for the exact number of the features found is provided in publications or reports , (?) = when the writer is giving an uncertain information.

**Table 7. 2** Chronological and settlement type classification of the sample of 30 Neolithic sites in Northern Greece.

	Neolithic settlements in Macedonia and Western Thrace			
	Early Neolithic	Middle Neolithic	Late Neolithic	Final Neolithic
	Axos A ▲	Arkadikos ▲	Arkadikos ▲	Kolokynthou ?
	Yiannitsa B ▲	Avgi ■ C	Avgi ■	Olynthos ▲
	Dikili Tash ▲	Yiannitsa B ▲	Axos A ▲	Sitagroi ▲
	Drosia ■	Grammi ■	Yiannitsa B ▲	
	Nea Nikomedeia ▲	International Fair of Thessaloniki ■	Dikili Tash ▲	
	Polyplatanos ▲	Dikili Tash ▲	Dimitra ▲	
	Servia ▲	Dimitra ▲	Dispilio ●	
		Dispilio ●	Kleitos ■	
		Drosia ■	Kolokynthou ?	
		Kolokynthou ?	Makri ▲	
		Lete I ■	Makriyalos ■	
		Lete III ■	Mandalo ▲	
		Makri ▲	Megalo Nisi Galanis ▲	
		Paliambela ■▲	Nea Nikomedeia ▲	
		Paradimi ▲	Paliambela ■▲	
		Proskinites ▲	Paradimi ▲	
		Servia ▲	Paradeisos ▲	
		Stavroupoli ■	Polyplatanos ▲	
		Thermi B ■	Promachonas-Topolnica ■	
			Proskinites ▲	
			Servia ▲	
			Sitagroi ▲	
			Stavroupoli ■	
			Thermi B ■	
<b>Sum</b>	<b>7</b>	<b>19</b>	<b>24</b>	<b>3</b>

Key: ■ flat-extended sites, ▲ tell sites, ● lake-side sites, ? nondescript settlement types, ■▲ flat-extended and tell arrangements

**Table 7. 3** Intra-site spatial configuration of kitchen spaces of the sample of 30 Neolithic sites.

	Neolithic settlements in Macedonia and Western Thrace			
	Early Neolithic	Middle Neolithic	Late Neolithic	Final Neolithic
	Axos A ▲ X	Arkadikos ▲ C/□	Arkadikos ▲ C/□	Kolokyntou ? X
	Yiannitsa B ▲ ?	Avgi ■ C	Avgi ■ C	Olynthos ▲ ?
	Dikili Tash ▲ X	Yiannitsa B ▲ □	Axos A ▲ X	Sitagroi ▲ C
	Drosia ■ X	Grammi ■ C	Yiannitsa B ▲ □	
	Nea Nikomedeia ▲ C/□	International Fair of Thessaloniki ■ X	Dikili Tash ▲ C/□	
	Polyplatanos ▲ X	Dikili Tash ▲ X	Dimitra ▲ ?	
	Servia ▲ X	Dimitra ▲ ?	Dispilio ● □	
		Dispilio ● □	Kleitos ■ C/□	
		Drosia ■ X	Kolokyntou ? X	
		Kolokyntou ? X	Makri ▲ □	
		Lete I ■ □	Makriyalos ■ C/□	
		Lete III ■ □	Mandalo ▲ □	
		Makri ▲ □	Megalo Nisi Galanis ▲ ?	
		Paliambela ■ ?	Nea Nikomedeia ▲ C/□	
		Paradimi ▲ C	Paliambela ■ ?	
		Proskinites ▲ X	Paradimi ▲ C	
		Servia ▲ C/□	Paradeisos ▲ □	
		Stavroupoli ■ C/□	Polyplatanos ▲ □	
		Thermi B ■ C	Promachonas-Topolnica_ ■ □	
			Proskinites ▲ X	
			Servia ▲ C/□	
			Sitagroi ▲ C	
			Stavroupoli ■ C/□	
			Thermi B ■ C	
<b>Sum</b>	<b>7</b>	<b>19</b>	<b>24</b>	<b>3</b>





Key: ■ flat-extended sites, ▲ tell sites, ● lake-side sites, ? nondescript settlement types, ■ flat-extended and tell arrangements  
 C: TS at the open-air spaces, □ : TS Inner buildings, □ C: Inner and Outer buildings, X: TS not found, ?: uncertain spatial arrangement.



**Table 7. 4** Classification of the site sample based on the extent of the excavated area.

Excavated area over 1000 m <sup>2</sup>	Excavated area under 1000 m <sup>2</sup>	Unknown excavated Area (?)
Avgi, Kastorias: 2000 m <sup>2</sup>	Axos A, Yiannitsa: 100 m <sup>2</sup>	Arkadikos, Dramas
Grammi, Pellas: 1600 m <sup>2</sup>	I.F.Th., Thessaloniki: 825 m <sup>2</sup>	Yiannitsa B, Yiannitsa
Dikili Tash, Serres: 1630 m <sup>2</sup>	Dimitra, Serres: 32 m <sup>2</sup>	Olynthos, Halkidiki
Dispilio, Kastorias: 1360 m <sup>2</sup> (overall)	Drosia, Edessa: 48 m <sup>2</sup>	Paliambela, Kolindros
Kleitios, Kozanis: 20000 m <sup>2</sup>	Lete I, Langadas: 117 m <sup>2</sup>	Paradeisos, Kavala
Kolokyntou, Kastorias: 1000 m <sup>2</sup>	Lete III, Langadas: 150 m <sup>2</sup>	Paradimi, Komotini
Makriyalos, Pierias: 60000 m <sup>2</sup>	Makri, Alexandroupoli: 500 m <sup>2</sup>	Servia, Kozanis
Nea Nikomedeia, Imathias: 1690 m <sup>2</sup>	Mandalo, Pella: 170 m <sup>2</sup>	Sitagroi, Dramas
Stavroupoli, Thessaloniki: 1300 m <sup>2</sup>	Megalo Nisi Galanis, Kozani: 32 m <sup>2</sup>	
Thermi, Thessaloniki: 14000 m <sup>2</sup>	Polyplatanos, Imathias: 160 m <sup>2</sup>	
	Promachonas-Topolnica, Serres: 844 m <sup>2</sup>	
	Proskinites, Komotini: 32 m <sup>2</sup>	
<b>10 sites</b>	<b>12 sites</b>	<b>8 sites</b>

**Table 7. 5** Tabulated intra-site spatial organisation of kitchen spaces from the assemblage of 7 EN sites in Macedonia and Western Thrace.

	<div>C</div>	C	<div>C</div> /C	X	?
 <b>Tell sites</b>	–	–	1	4	1
 <b>Flat-extended sites</b>	–	–	–	1	–
 <b>Lake-side sites</b>	–	–	–	–	–
 <b>Tells &amp; Flat-extended</b>	–	–	–	–	–
<b>?: Nondescript type</b>	–	–	–	–	–
<b>Sum:</b>	–	–	1	5	1

Key: C: TS at the open-air spaces, 





C

 TS Inner buildings, 

C

 Inner and Outer buildings, X: TS not found, ? : uncertain spatial arrangement.

**Table 7. 6** Tabulated intra-site spatial organisation of kitchen spaces from the assemblage of 19 MN sites in Macedonia and Western Thrace.

	<div>C</div>	C	<div>C</div> /C	X	?
 : Tell sites	1	1	2	2	2
 : Flat-extended sites	2	3	1	2	–
 : Lake-side sites	–	–	–	–	1
 : Tells & Flat-extended	–	–	–	1	–
<b>?: Nondescript type</b>	–	–	–	1	–
<b>Sum:</b>	3	4	3	6	3

Key: C: TS at the open-air spaces, 





C

 TS Inner buildings, 

C

 Inner and Outer buildings, X: TS not found, ?: uncertain spatial arrangement.

**Table 7. 7** Tabulated intra-site spatial organisation of kitchen spaces from the assemblage of 24 LN sites in Macedonia and Western Thrace.

	<div>C</div>	C	<div>C</div> /C	X	?
 : Tell sites	4	1	3	4	3
 : Flat-extended sites	1	2	3	–	–
 : Lake-side sites	1	–	–	–	–
 : Tells & Flat-extended	–	–	–	1	–
<b>?: Nondescript type</b>	–	–	–	1	–
<b>Sum:</b>	6	3	6	6	3

Key: C: TS at the open-air spaces, 





C

 TS Inner buildings, 

C

 Inner and Outer buildings, X: TS not found, ?: uncertain spatial arrangement.

**Table 7. 8** Tabulated intra-site spatial organisation of kitchen spaces from the assemblage of 3 FN sites in Macedonia and Western Thrace.

	<div>C</div>	C	<div>C</div> C	X	?
 : Tell sites	–	1	–	–	1
 : Flat-extended sites	–	–	–	–	–
 : Lake-side sites	–	–	–	–	–
 : Tells & Flat-extended	–	–	–	–	–
?: Nondescript type	–	–	–	1	–
<b>Sum:</b>	0	1	0	1	1

Key: C: TS at the open-air spaces, 

C

 TS Inner buildings, 

C

 Inner and Outer buildings, X: TS not found, ? : uncertain spatial arrangement.